Stress, Health & Performance in Military Women

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Prospects, Pitfalls & Protean Patterns from Current Research



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This volume is the result of collaboration and consultation to disasters and traumatic events affecting military women and men. These empirical studies examine the psychological, behavioral, cognitive and physiological responses to traumatic events in military women across services. In this volume, the authors examine the effects of wartime deployment to the Persian Gulf, traumatic relocation of military families in the wake of Hurricane Andrew, health care and disaster workers following a mass casualty plane crash at Ramstein Air Force Base, spouses of military disaster workers following a mass-casualty plane crash on an Air Force Reserve Base in Sioux City, Iowa. The authors also conducted a large epidemiological study at two military sites (Ft. Ord, California and Ft. Carson, Colorado) to examine baseline health and develop norms for future study of gender, stress and health in soldiers exposed to military-related and generic traumatic events.					
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Stress, Health & Performance in Military Women

Prospects, Pitfalls & Protean Patterns from Current Research

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To the military women and men who generously shared their experiences as part of our research to better understand the effects of traumatic events on individuals and communities; it is their hope that in sharing their experience they might be of help to others.

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HIS WORK IS THE RESULT of a rich collaboration among the members of the Psychiatry Department's Center for the Study of Traumatic Stress at USUHS and the colleagues who have supported our quest to better understand the impact of events that disrupt & overwhelm, yet can be sources of tremendous growth.. We come from a variety of backgrounds and represent diverse disciplines and institutions from around the world. It is through our continued collaborations that our research thrives, grows and sows the seeds for future knowledge.

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From Gender Gulf to Persian Gulf

HE MILITARY HAS A STRONG INTEREST IN THE EFFECTS OF TRAUMA on individuals and groups. Historically, a great deal of what has been learned about human responses to traumatic events derives from studies of combat veterans. However, little is known about how women soldiers and officers may be uniquely affected by traumatic events and the stressors unique to the military. There is a close interplay between performance, health and psychosocial factors in responding to traumatic events. Gaining a better understanding of the gender-specific responses to traumatic events has important implications for the development of command policy, training, and medical care to meet the unique needs of women.

Systematic study of the effects of stress and trauma on women's health is timely for women in all branches of service. Over the past decade there have been a growing number of empirical studies documenting posttraumatic stress. Little is known about the specific stress responses in women in general, and in military women in particular. Military women are exposed to a unique range of stressors such as deployment and combat, exposure to severe environments, and must function in a traditionally male culture. Few studies have examined stress and health responses in military women with appropriate controls.

As greater numbers of women enter the military and with the military's mission expanding to increase its role in disaster relief efforts (e.g., Hurricane Andrew), peace keeping (e.g., Bosnia) and peace making (e.g., Haiti), the study of

gender-related responses to stress and traumatic events is critical. It is particularly relevant that the UN General Assembly Resolution 42/169, adopted on 11 December 1987, designated the 1990s as a decade for natural disaster reduction (WHO, 1992). The present volume focuses on how and in what ways gender affects response to traumatic events. This targets women as the population of study and avoids the polarization of males and females as either being extremely different or not at all different.

In the next decade, research on the health effects of women exposed to stress and traumatic events must incorporate the unique dimensions of military specific stressors along with factors specific to women in particular. Currently, we lack empirical research on the long-term effects of stress and trauma in women in the military. Interventions should offer long-term strategies that are economical and suggest directions for policy decisions.

UR RESEARCH ON THE IMPACT OF STRESS AND TRAUMA on the health of women serving in the Armed Forces represents studies of populations involved in a wide range of occupational activities in an environment that is traditionally male dominated. Although preliminary in nature, our findings support existing research on the importance of social context, the nature of the stressors that are unique to the military and those that are often generic to women., on health and performance in high stress environments. Importantly, we designed our research and data analyses to avoid several of the common pitfalls encountered by empirical research of women, and in particular, research on military women.

Gender is not stable over groups and therefore generalization of findings must be made cautiously. For example, we all agree that there are gender-related biological differences, however these differences may have different meanings and salience depending on culture, group and individual needs. Unlike gender-related research that is narrowly focused on a particular area of interest, our research strategy is multivariant and considers the interactions of psychological, behavioral, cognitive, physiological, and social processes. This approach, advocated by Baum and Grunberg (1991), takes into account the interactions of these processes as they occur in a natural setting-not as an isolated aspect of human functioning. Although, some researchers with a narrow focus acknowledge the limitations, many proceed to draw conclusions about gender-related differences in relative isolation of other responses. Unfortunately, these studies can result in conclusions that are misleading and negatively impact on policy development.

In addition to specific topic areas for future research, iundicated in the following chapters, two overall research strategies warrant consideration: the use of meta-analyses and the study of and intervention in basic training. Conducting meta-analyses of already available gender studies in relevant military areas can

Executive Summary

allow rapid application of existing findings to important issues in a cost effective manner. As always one must be careful about the generalization of findings from civilian groups. However, as a minimum this produces an advanced set of hypotheses for testing in specific military environments and with military related tasks. Targeting Basic Military Training as a research area for gender studies can address the timeliness of many gender topics and the cohort effects that they often reflect. Interventions at this time may also have effects that can generalize throughout the military and the next generation of soldiers, sailors and airmen/women...This is not to neglect the importance of senior levels of command the need to understand gender effects and intervene at this level. However, one must train the next generation to avoid the problems of the present generation.

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Research on Gender Differences: \mathcal{N} ew Methods to the Madness?

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Research on Gender Differences:

New Methods to the Madness?

"Research on health and behavior should consider men and women - not because it is discriminatory not to do so - but because it is good science."

From Baum & Grunberg (pg.84, 1991)

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E ALL WOULD AGREE that people differ. The profusion of gender-related research sustained over time and the media attention bespeaks the critical role of gender-related effects. The relationship between stress and gender-related health differences is recognized as one of the most important, yet highly controversial, ways that people differ. Gender-related differences in stress responses in the experience of traumatic events has been documented. Women in the military interact and respond in different ways than men to the military experience. The problem occurs when one group is considered the norm and the other "differs" rather then using differences to support the importance of interventions that meet the needs of various subgroups. The studies in this

compendium speak to the complex multidimensional ways in which gender mediates stress and affects health in military women.

Women in the military are affected by stressors that are *unique to the military* (e.g., war-time deployment, separation from family, working in extreme, remote and isolated environments, the potential for chemical and biological warfare (CBW); and by traumatic events which affect the general population. The nature of the specific stressors associated with a traumatic event is a combination of the stressors *unique* to the specific traumatic event, and the stressors that are *generic* to traumatic events in general (e.g., life-threat, physically demanding work, injury and illness, witnessing the death of peers, exposure to multiple and violent deaths, traumatic relocation and loss of home and community, physical injury, life-threat, bearing witness to the death of significant others.

Our project is the result of collaboration and consultation to disasters and traumatic events affecting military women and men. This compendium examines the psychological, behavioral, cognitive and physiological responses to traumatic events in military women across services. Our disaster consultations have provided the opportunity to conduct longitudinal research to examine the acute and long-term effects of stress on military women and men. In some studies we have used comparison groups of military women and men in the military who were not exposed to the traumatic event. In this volume we examine the effects of: war-time deployment to the Persian Gulf, traumatic relocation of military families in the wake of Hurricane Andrew, health care and disaster workers following a mass-casualty plane crash at Ramstein Air Force Base; spouses of military disaster workers following a mass-casualty plane crash on an Air Force Reserve Base in Sioux City, Iowa. We also conducted a large epidemiological study at two military sites (Ft. Ord, California and Ft. Carson, Colorado Springs) to examine base line health and develop norms for future study of gender, stress and health in soldiers exposed to military-related and generic traumatic events.

GROWING EVIDENCE of the IMPORTANCE of GENDER TO HEALTH

Biological processes mediate behavior directly. However, psychosocial processes also affect the body, e.g., the brain, the endocrine and immune systems. For example, researchers have speculated that exposure to uncontrollable stress precipitates changes in neurochemical systems thought to be involved in arousal, attention, learning and memory (e.g., McGaugh, 1990; Wolfe & Charney, 1991; van der Kolk, 1987; Watson, Hoffman, & Wilson, 1988). A growing body of literature has documented heightened levels of autonomic arousal in veterans with PTSD (Kolb, 1987). Arousal may be disrupted further by intrusive memories that interfere with attention (see Litz & Keane, 1989 for a review). Attentional biases and heightened physiological reactivity for trauma-

related stimuli among veterans with PTSD has been demonstrated (McNally et al, 1990; Zeitin & McNally, 1991.)

Research on the individual and group differences in response to stress and traumatic events suggests that there is no single source of resilience or vulnerability. Rather, many interacting factors come into play. First are the individual factors that are enduring, i.e., genetic predisposition's (temperament) and personality. Second are the environmental factors, e.g., psychosocial interaction including social relationships, interpersonal skills and self esteem.

Gender can mediate the effects of stress on health in several ways: biological, psychosocial and cognitive (e.g., perception, interpretation and attribution). Women are more willing to report distress than men although illness and physiologic responses may actually be similar to that of males. Women generally report greater social supports than men. Social supports (e.g. unit cohesion) affect health. There is a greater risk for postraumatic stress in single parents with children and higher rates of somatization among women in general

THE PSYCHOLOGY OF GENDER

Implicit in research on gender is the assumption that there are meaningful differences between the sexes, and that the results of male-only studies cannot reliably be generalized to women. Gender differences are attributed to a wide range of factors: (1). biological differences (e.g., hormonal differences such as the variation in drug response by women during different stages of the menstrual cycle); (2). psychosocial differences; and (3). gender-related differences in behaviors such as smoking or substance abuse. The critical question is to what extent are gender differences clinically meaningful to health and performance.

A number of factors must be considered in order to begin to sort through the complex task of looking at gender differences. A comprehensive review of the critical issues and factors appeared in the March, 1995 issue of American Psychologist. Several articles present the scientific and political issues that shape the direction and success of gender studies. The lead article in this volume is a metaanalysis of the empirical literature on gender differences (Eagly, 1995). Some researchers believe that the scientific investigation of gender differences stirs controversy and should be discouraged. Other investigators stress the importance of continued empirical research on gender differences that avoids the pitfall of interpertating gender differences as true of all populations, expands the variables being studied and examines the magnitude of gender differences across the dimensions of study (e.g., gender differences in social functioning vs. gender differences in cognitive functioning).

Three general dimensions account for variation in gender differences and must be considered in research to identify gender-related differences: (1). Who

is being studied? - differences between populations (gender differences are not generic, but rather are mediated by which women and which men are being studied); (2). What is being studied? - type of functioning (e.g., social, cognitive, communication, biological etc.); (3). How much is any difference? - the magnitude of gender differences (i.g., how much difference makes a difference between the sexes);and the interaction of the type of functioning examined and the magnitude of gender differences.

Of particular relevance to the study of military women are the differences between gender as a function of group membership. It is important to determine how women in the military population differ from women in the general population on all variables. Identification of differences between women of different populations is critical to accurate generalization of findings, what factors are unique to gender differences in military women and men and what factors does the military population share with other sub-populations.

Gender and Health Behaviors

Women respond in different ways than men to health interventions. There are, however, health behaviors common to both sexes. In order implement programs designed to change high risk health behaviors, it is important to understand and identify both the gender-related behaviors and the responses common to both sexes. For example, empirical studies show the importance of gender roles in sexual behavior and the implications for interventions that target, for example, HIV risk behaviors and risk reduction among adolescents. There is, however, a paucity of literature available regarding the health education that military women receive during basic training. Although most recruits receive basic information on hygiene and first aid, instruction and information on the unique health concerns of military women is not readily available. Many of the women at high risk for pregnancies and STDs are in their late teens and early twenties and frequently are away from their families and their primary sources of support for the first time.

The higher base rates of psychiatric illness in women, their greater social supports, and higher distress after exposure to death and the grotesque, may be expected to alter responses to trauma compared to that in men. In addition, differences in fatigue, chronic stress tolerance, effects of sleep deprivation and variation of stress effects across the menstrual cycle can increase or decrease stress tolerance and health effects. Further hypothesis generating empirical study of the effects of stress on military women, coping strategies needs to focus on the operational implications of empirical studies targeted specifically at women in the military.

 $\mathcal{J}_{\text{NTRODUCTION}}$ to the $\mathcal{S}_{\text{TUDIES}}$

Carol S. Fullerton & Robert J. Ursano

$\mathcal{J}_{ ext{NTRODUCTION}}$ to the $\mathcal{S}_{ ext{TUDIES}}$

Carol S. Fullerton & Robert J. Ursano

AINING KNOWLEDGE ABOUT THE HEALTH, STRESS AND COPING responses in military women will enhance the ability to anticipate and treat adverse reactions to trauma, and thus increase readiness and performance. The goal of our studies is to present initial analyses conducted across several populations of military women exposed to stress and trauma, and also women in a combat support unit. We recognize there are many confounders and caveats to the interpretation of these preliminary studies. They are, however, valuable in that they are empirical studies designed to examine women in the military, they use standardized instruments, they control to some extent for exposure, control groups were used in some, longitudinal data were collected (and are reported for some studies). Perhaps most important is the direction suggested by these initial findings. Taken with the limitations described below, these studies represent a unique opportunity to examine the gender-related health effects in military women across stressors (including war and disasters). These preliminary studies examined several sources of variation in women's response to stress: (1). the within group variation (e.g., differences among women exposed to a common stressor); (2). the between group variation (e.g., differences between women and men exposed to a common stressor); (3) women's responses to other types of stressors, and importantly, (4) women not exposed to these stressors. empirical studies in this volume were designed to examine the sources of variation in women's response to stress in a model that integrates physiological, psychological, psychosocial and cognitive processes.

RISK FACTORS

A large proportion of our nation is affected by disasters (Federal Emergency Agency, 1984; Rubin & Nahavandian, 1987). Between 1965 and 1985, 31 states experienced five or more presidentially declared disasters. In the 99th and 100th Congress, over 175 Bills were introduced to deal with disaster, terrorist, and war victims. In FY 1979-80, the American Red Cross reported that more that 688,000 persons received emergency care following a disaster, and over 90,000 families were assisted. Between 1974 and 1980, there were 37 major catastrophes in the United States. Such events have a psychological and financial impact on hundreds and thousands of victims as well as their relatives and friends, witnesses, rescue workers and the military. Norris (1987) estimated that 6-7% of the United States population are exposed to a disaster or traumatic event each year -- ranging from hurricanes and tornados to motor vehicle accidents and crime. In addition, when such events involve military members and the fighting force.

There is agreement in the trauma literature that the validity of self-report methods is greatly improved when supplemented by clinical, behavioral and physiological measures (see Ursano et al., 1995). This dilemma is quite common in research designed to examine group and individual responses to traumatic events. For example, in order to understand risk factors following exposure to trauma and disaster, investigators examine large numbers of people exposed within an extremely short time-frame. The importance of the assessment timing is illustrated by the predictive nature of acute trauma responses to long-term outcome following trauma exposure (Fullerton & Ursano, in press). By employing measures used in current trauma research, the results of the studies described in this volume can be compared to those of other investigators. Taken with caution, the findings can identify stressors and responses that are unique to military women yet common to their civilian counterparts, common to military men, and common across different stressors. An important component is the individuals' appraisal of traumatic events and stressors, how coping is affected by appraisal and how coping is related to the maintenance of posttraumatic symptoms (Ursano & Fullerton, 1995).

RESILIENCE IN THE FACE OF TRAUMA

It should be remembered that the effects of traumatic events are not always bad. For some people, trauma and loss facilitate a move toward health. A traumatic experience can become the center around which a victim reorganizes a previously disorganized life, reorienting values and goals. Traumatic events appear to function as psychic organizers that are later expressed after symbolic, environmental, or biological stimuli. Although many survivors of the 1974 tornado in Xenia, Ohio experienced psychological distress, the majority described positive outcomes: learning that they could handle crises effectively, and feeling that they were better off for having met this type of challenge. This "benefited response" is also reported in the combat trauma literature. Sledge, Boydstun, and Rahe found that approximately 1/3 of U.S. Air Force Vietnam era prisoners of war (POWs) reported having benefited from their prisoner of war experience. These POWs tended to be the ones who had suffered the most traumatic experiences.

Resilience in the face of trauma has implications for the design of research on military women. First, define healthy recovery from trauma, i.e., a "normal response to an abnormal event" in women exposed to the unique stressors of the military. Second, examine the factors that promote healthy recovery from trauma focus on coping and adaptive behaviors in military women. Focus on factors that can be ameliorated with training intervention, thus promoting readiness in military women.

COMBAT & COMBAT SUPPORT: NO PLACE FOR WOMEN?

In one of the earliest epidemiological studies of combat veterans, using the Epidemiological Catchment Area Study (ECA) data, Helzer (1987) found the incidence of PTSD in combat veterans to be 6.3%. In a large study of Israeli soldiers (N = 3,553) with acute combat stress reaction during the 1982 Lebanon War, Solomon and Benbenishty (1986) found chronic PTSD rates of 56% 2 years later. The National Vietnam Veterans Readjustment Study (Kulka et al. 1990, 1991; NVVRS) is the most extensive epidemiological study to date of the long-term psychiatric effects of combat. The prevalence of PTSD in Vietnam veterans up to 19 years post-war was 15% (Kulka et al. 1990). In the present day, preliminary studies of Persian Gulf war veterans during the first year after return indicated that approximately 9% of veterans had PTSD (Rosenheck et al. 1992).

The incidence of psychiatric disorders after combat is positively associated with the degree of war trauma experienced, witnessing/participation in atrocities, and with being wounded (Kulka et al. 1990; 1991; Sutker et al. 1991; Ursano et al. 1981). In addition to combat severity, other factors contribute to the risk of psychiatric disorder following combat. The NVVRS study, as well as most other

STRESS AND HEALTH IN MILITARY WOMEN

studies of clinical populations of PTSD, found high comorbid rates of Depression, anxiety disorders and substance abuse in veterans with chronic PTSD.

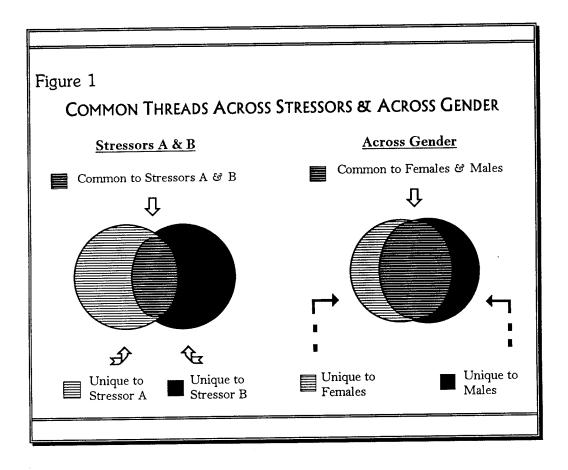
The ECA Study of Vietnam veterans documented a higher rate of posttraumatic stress disorder in wounded Vietnam veterans (Helzer et al. 1987). Similar findings were noted in the Veterans Administration's study (Kulka et al 1990; Kulka et al. 1991). Greater exposure to combat in Vietnam was also significantly related to higher rates of posttraumatic stress disorder, depression, and alcohol abuse (Kulka et al. 1990). In an interesting study, Goldberg et al. (1987) studied monozygotic twins discordant for service in Vietnam. Of the twins who had served in Vietnam, 16.8% had posttraumatic stress disorder, in contrast to only 5% of the twins who had not served. There was a nine-fold increase in the prevalence of posttraumatic stress disorder in the twin exposed to high levels of combat in Vietnam compared to their non-combat sibling.

GAPS IN EMPIRICAL KNOWLEDGE OF THE STRESS & HEALTH EFFECTS IN MILITARY WOMEN

Despite a large body of literature on responses to stress there are substantial gaps in our current understanding of the stress effects in military women and the design and implementation of intervention programs effect performance associated with combat, deployment, contingency operations and trauma. In response to this need, we have brought together both the clinical and research issues of acute and long-term posttraumatic responses. We go beyond PTSD to examine other posttraumatic disorders and responses, the mechanisms of transmission of posttraumatic stress and its effects on behavior and health in women in the military. Particular attention is paid to the array of responses in military women to several different traumatic and disaster events.

We introduce the idea of the importance of examining common threads connecting responses in women across stressors and common threads connecting responses to stress in both women and men in the military. To gain a better understanding of these issues we turn now to the elements that make up the common threads. The primary units of analysis are illustrated by the Venn diagrams in Figure 1.

Most important to the study of common threads across stressors, is the examination of the variation in response to trauma that is accounted for by variation in the nature and severity of stressors. It becomes clear that accurate assessment of variance due to stressor differences is highly dependent on assessment of the contribution of other variables to the variance. To understand what contributes to variation of response to stress one must examine variables in the context of other potential contributors to response variation. Therefore, a multivariate approach is needed.



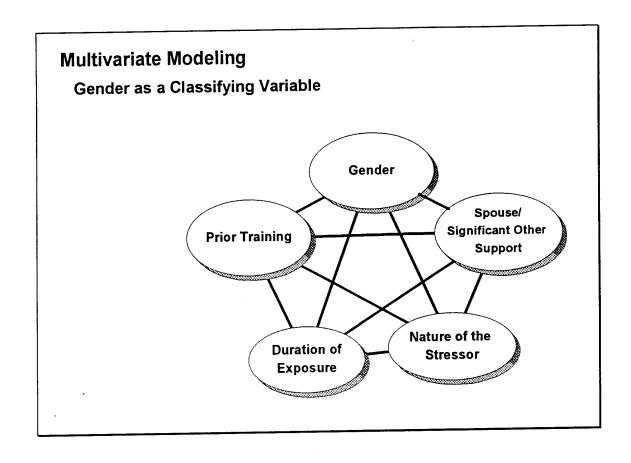


FIGURE 2. Hypothetical web-like configuration representing patterns of interaction of predictor variables that mediate quality influence of four variables.

The mediating effect of gender on response to working with dead bodies.

The empirical studies reported in this volume each speak to the issue of within-group and between-group variation in response to traumatic events. Keeping this notion in mind, the various reports will reveal an intricate weaving of the elements that make-up the common thread in responses of military women to trauma and stress. What will become clear will be some of the potential underlying mechanisms or the elements leading to important directions for future empirical investigation of military women's' health and stress-related responses.

We examined the unique responses of military women across services in five different settlings: (1). deployment on the USS Comfort during the Persian Gulf War; (2). traumatic relocation from Homstead AFB in the wake of Hurricane Andrew; (3). health care & disaster workers following the 1988 Air Show Crash at Ramstein AFB, Germany; (4). spouses of military disaster workers following the

Introduction

1989 United Airlines crash, Sioux City, Iowa; (5). combat support troops assigned to Ft. Ord, California, & Ft. Carson, Colorodo.

OVERVIEW OF THE STUDIES

- Fort Ord & Fort Carson. We examined active duty army troops from Fort Ord and Fort Carson (N=2367 with 435 women) addressing garrison stressors and mental and physical health. We used standardized measures used in many epidemiological studies, e.g., the General Health Questionnaire (GHQ), Physical Health Practices (PHP), the Combat Stress Scale, as well as measures of unit cohesion and confidence, social supports and family life.
- USS Comfort deployment to the Persian Gulf War. Women deployed on the USS Comfort during Operation Desert Storm (N=200, 35% women). Data during deployment and follow-up data were examined.
- .Hurricane Andrew. Homestead Air Force Base personnel after Hurricane Andrew (N=243, 10% active duty women; spouses of active duty men, N=145) and matched control groups from MacDill and Shaw AFB (N=139, 10% active duty women; and spouses of active duty men, N=80).
- Sioux City, Iowa, United Airlines plane crash. We examined our data on the disaster workers (185th Air National Guard Fighter Group) and their spouses. We have data from a matched control group at the Air National Guard Unit in Sioux Falls, South Dakota. The groups were matched by mission and sociodemographics of the communities. Approximately 10-15% of each of these groups are women. In addition, a sample of women indirectly exposed to the trauma of the crash (spouses of the ANG groups) is available. Thus we examined both high direct exposure to the air crash and indirect trauma exposure in the spouses using matched control groups.
- Ramstein AFB Flugtag. The 1988 Italian Air Show crash at Ramstein AFB. We have data from people involved at the Ramstein Medical Clinic (N=121). We also have data from personnel at nearby Landstuhl Medical Center who treated victims of the disaster (N=233). Approximately 35% of each of these groups are active duty service women.

STRESS AND HEALTH IN MILITARY WOMEN

Table 3: SUBJECTS & SAMPLE SIZES

TRAUMA STUDIES	FEMALE	MALE	TOTAL
Ft. Ord/Ft. Carson	435	1,932	2,367
Hurricane Andrew			
A. Exposed (Homstead AFB)			
1. Active Duty	23	220	243
2. SSOs	141	4	145
3. Adolescents	35	19	54
B. Controls (Shaw/McDill AFB)			
1. Active Duty	139	19	120
2. SSOs	80	75	155
3. Adolescents	17	15	32
USS Comfort	111	138	249
SIOUX CITY PLANE CRASH			
A. Worker	24	183	207
B. Non-Worker	14	87	101
C. Worker/Non-Worker SSOs	186	10	196
D. Controls	58	363	421
E. Control SSOs	241	14	255
Ramstein	126	228	354

Chapter 1

Gender Differences in Stress Perception, Coping & Emotional Responses to Gulf War Deployment

Anita Slusarcick, Robert J. Ursano, Carol S. Fullerton, & Michael Dineen

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I. BACKGROUND

Individuals are motivated to pursue happiness, pleasure or a state of well being. They acquire certain resources or conditions which make it easier for them to achieve these states. Money, status, favors from friends are examples of such resources. (Hobfoll, 1989) In fact, people may even try to stockpile resources because they are likely to increase the possibility of positive reinforcement at some future time.

According to this view, psychological stress occurs when individuals experience resource loss or threatened loss. (Hobfoll, 1989). Resources are "the single unit necessary for understanding stress...those objects, personal characteristics, conditions or energies that are valued by the individual or that serve as a means for the attainment of these objects, personal characteristics, conditions or energies."(Hobfoll, 1989, p. 516) Loss may involve control or the loss of one's valued peers, for example.

Resources are of various types: object resources: such as a home; conditions: such as marriage, higher rank or social support/ social integration; personal characteristics: such as an appropriate coping mechanism or locus of control; energies: those things which aid in the acquisition of other resources; these are time, money, knowledge, information, experience.

We have placed social support in the conditions category, but Hobfoll (1989) does not place it in any group; he says that it has aspects of a condition resource or an energy resource when it is helpful, but he cautions that it is not always useful, and may, in fact, be a source of stress. Marriage, too, to the extent that it is valued is a resource, but not all marriages are treasured by the partners.

Resources are not equally available to all members of the population and those who lack them are subject to further resource loss. This has been called a loss spiral. The enlisted person without friends or without the social competencies to make friends may have little access to information which would facilitate his or her adjustment to a particular duty station or military occupational specialty.

Transitions have the possibility of being stressful, because transitions, like the old adage of the Chinese view of crisis, have in them the potential for stress or opportunity. When successfully met, they may become stress inoculations. (Hobfoll, 1989)

Mowhere have transitions been so evident than in the military environment. Basic military training (bmt) is stressful because it marks the transition to a new way of life. In their now-classic studies of the stress of bmt, Marlowe (1959) and Datel (1966) have shown, using participant observation and adjective checklists respectively, that stress remains high until about week four when the new recruits gain mastery of their environment during training in small arms fire.

Deployment may be another transition. It requires adaptation to another style of life, but, unlike basic training, it holds many

more serious consequences if there is a failure to adapt. Examples of such consequences are the loss of one's life or psychological stress in reaction to the deaths of one's comrades, i.e. post-traumatic stress disorder (ptsd).

This also brings about the notion of gain spirals which Hobfoll (1989) does not mention but which the authors believe also exist. Folk wisdom says that the rich get richer. Individuals who successfully negotiate their way through a deployment have that experience on their military records facilitating their promotions and opening other doors as well.

Little is known about the stress felt or adaptation shown in a war zone environment by men and women exposed to the same set of circumstances. (Wolfe, 1993) In writing about psychopathology, Kulka et al. (1990) note that rates of ptsd have been found to be 30.9% for men and 26.9% for women in Vietnam, but the actual environmental causes are different. For men, these rates reflect the intensity of combat with loss -- frequently gruesome -- of comrades and of safety. For women, these involve the caregiving role of nurse.

Wolfe and colleagues write, "Because there are few data on the nature of their wartime exposure, investigation of female veterans' experiences offer the opportunity to examine whether their stressor exposure resembles that of male cohorts of whether existing conceptualizations of wartime stress should be broadened or refined." (Wolfe et al., 1993, p.330)

Life on board a hospital ship during deployment offers a

relatively controlled environment in which the effects of stressors can be studied across various groups including men and women. Investigators have considered hospital personnel to be unusually motivated to serve as subjects in health studies because of the participants' understanding of the potential benefits of such activity to others. And, so, investigators have devoted entire studies focusing on such groups as nurses (Colditz, Martin & Stampfer, 1986) or physicians (Steering Committee on the Physicians Health Study, 1989).

reasons for studying the responses of hospital ship personnel. Their reactions to the war zone, if poor, may limit their ability to care for the military sick and injured. Hobfoll (1989) summarizes this nicely by writing, "employing resources for coping is also stressful in itself. ... studies have found that people who were placed in a position in which they were required to give support at a time when they themselves needed support, experienced increased psychological distress" (pp.518-519). Therefore, it would make sense to make the hospital ship environment as resource rich as possible.

emotional reactions of a group of military medical personnel onboard ship during the Gulf War. The USNS Comfort deployed unexpectedly to the Gulf War Crisis on 13 August 1990 as a hospital ship. In September 1990, those who were deployed in August were surveyed.

Dineen and colleagues write of the crew's response to the news of deployment, "[they] had little or no time to adjust to the idea of shipboard life and isolation from family and friends. Ninety percent of the crew had never deployed, and most never expected to go to sea" (Dineen et al., 1995) [since most had shore billets prior to deployment]. This seems to qualify as a transition.

It is our purpose to examine these effects by gender in order to determine to what extent resources in the future must be tailored by sex.

We now briefly review the nature of gender differences in the civilian world and we mention how these variables may effect outcomes of interest in military settings.

1. Gender differences in coping: Conventional wisdom suggests that men are higher in problem-focused coping while women are masters of emotion focused styles. Folkman and Lazarus (1980) in their community study found that, contrary to expectation, there were no gender differences in emotion focused coping. Men exhibited higher problem focused coping only in work situations and in situations that had to be accepted. This led investigators to conclude that there were very few gender differences in coping in actuality.

Nonetheless, this study did find differences in the types of events which the sexes found to be stressful. Men reported more work incidents while women related more family and health episodes.

In the military, Vietnam era military nurses who reflected on their coping during their duty tours and who evidenced patterns

of seeking social support, expressing feelings and searching for meaning exhibited good present psychological functioning. (Leon, Ben-Porath and Hjemboe, 1990).

2. Gender differences in social support: In their review of this topic, Shumaker and Hill (1991) note that men consider their wives to be the quintessential sources of support while women are connected to social support networks which are wider, more multifaceted and more multi-functioned than those of men. These effects described for women are even more true for working women than for homemakers.

However, women may be more prone to the negative effects of being involved in large social networks; these may involve more demands and depletion of resources.

psychologist Robert Stretch and colleagues (1985), in their study of Vietnam War nurses, found that social support, both during the nurses' Vietnam tours and on return home from the war, ameliorated the effects of the war and that it accounted for more variance in predicting ptsd symptoms than did perceived danger and exposure to violence combined, which were also significant effects in predicting such symptoms.

3. Gender differences in emotional responses: Even in spite of some confounding variables, Wool and Barsky (1994) note that women do seem to somatize more than men. Women are more likely than men to be depressed (Robins, Locke & Regier, 1991). Moreover, they exhibit more panic disorder, phobia, and obsessive compulsive disorder than men (Cleary, 1987) although men present with more instances of

personality disorder, substance abuse and suicide.

Depression in women may be particularly important in predicting future acute stress disorder in disasters, found investigator Carol North (1995)

4. Gender differences in health care utilization: Verbrugge (1989) notes that while women live longer than men, women have higher rates of physical illness, disability days, physician visits and prescription and non-prescription drug use than men. Men, on the other hand, have higher rates of injury than women.

II. METHODS

A. The Sample

The USNS Comfort deployed unexpectedly to the Gulf War Crisis on 13 August 1990 as a hospital ship. Investigators endeavored to survey all health care personnel (N=504) who deployed during the dates of 13 and 23 August 1990. The actual time of the first survey was September 1990. Forty-nine and six tenths of the subjects responded (N=250). 55.4% were male (N=138) and 44.6%, female (N=111).

The following is a description of the scales and other questions given to respondents at that time and on which we report. A copy of the entire questionnaire is given in Appendix A.

B. The Measures

B.1.The SCL-90

In order to measure affective state and psychopathology investigators used the 90-item SCL-90 developed by Derogatis and colleagues (1976), using psychiatric and medical outpatients.

Respondents are asked to rate themselves on a number of symptoms using a 5-point Likert scale ranging from "not at all" (0) to "extremely" (4). Items are then grouped on nine dimensions of Somatization, Obsessive-compulsive, Interpersonal Sensitivity, Depression, Anxiety, Hostility, Phobic Anxiety, Paranoid Ideation, and Psychoticism. There are, in addition, three other measures which are available, the Global Severity Index, the Positive Distress Index and the Positive Symptom Total.

Coefficient alpha reliabilities have ranged from .. 90 for the depression subscale to .77 for the psychoticism dimension (Derogatis, Rickels and Rock, 1976), with most in the .80 range.

Investigators at USUHS have added an additional 15 traumarelated items to the scale.

B.2. Ways of Coping

Ways of Coping is a 67-item scale designed to ascertain the styles of thinking and behavior that individuals use in appraising a stressful situation. Respondents were asked to rate themselves on each strategy by indicating whether it was "not used" (scored 1) to "used a great deal" (scored 4). (Folkman et al., 1986.

Responses can be grouped into eight subscales: confrontive coping, distancing, self-controlling, seeking social support, accepting responsibilty, escape-avoidance, planful problem-solving and positive reappraisal. Internal consistency reliabilities, in the published literature, have ranged from .61 for distancing to .79 for positive reappraisal (Folkman et al., 1986). The coping strategy individuals choose to use has been shown to vary according to cognitive appraisal and it differentiates encounter outcomes.

subsequent work has shown that the subscales can be factor analyzed into two factors and a variable, i.e. there is the problem-focused factor comprised of seeking social support, problem solving, positive reappraisal, and confrontive coping.

A second factor is composed of distancing, escape/avoidance and accepting responsibility and it may be called emotion focused.

One subscale does not load heavily on either factor: self-control. Various types of social support have been shown to be differentially related to these two factors (Dunkel-Schetter, Folkman and Lazarus, 1987).

B.3. Comfort-specific Stressors

The following questions were asked to measure this dimension:

How stressful have the following items been to you on this deployment? (1=not at all stressful, 7=extremely stressful)

- 1.Heat
- 2. Separation from Family
- 3. Fear of Fire
- 4. Fear of Terrorist Attack
- 5. Fear of Ship Sinking
- 6. Fear of Your Own Death
- 7. Fear of the Death of Others
- 8. Pear of Caring for Combat Casualties
- 9. Fear of the Unknown
- 10.Other

B.4. Comfort-specific Stress Reducers

This construct was evaluated in the following way:

How helpful are the following leisure activities in reducing stress? (1=not at all helpful, 7=extremely helpful, 8=not applicable).

- 1.Gym
- 2.Movies
- 3. Eating
- 4. Weather Decks
- 5. Lounges
- 6.Reading
- 7. Time alone
- 8.Library
 - 9.Socializing with Friends
 - 10.Reading Mail
 - 11. Writing Mail
 - 12.Other

B.5. Prior Operational Experience

The following questions were asked to assess prior background:

- 1. Have you had sea duty prior to the USNS Comfort deployment? (1=yes, 2=no)
- 2. Have you had isolated duty prior to the USNS Comfort deployment? (1=yes, 2=no)
- 3. Have you had prior experience in the Middle East? (1=yes, 2=no).
- 4. Have you ever participated in a disaster or mass casualty event? (1=yes, 2=no)
- 5. Have you ever worked with dead bodies? (1=yes, 2=no)
- 6. Have you ever had a patient die while in your care? (1=yes,2=no)
- 7. Please indicate your participation in these Operational Readiness Training Experiences (1=yes,2=no).
 - 1.FMSS (Fleet Marine Force)
 - 2.ACLS
 - 3.ATLS
 - 4.C4
 - 5. Damage Control Training
 - 6. Shipboard Orientation
 - 7.MMART Team Experience
 - a.RADMUF Training
 - 9.MEDSTAR (Trauma Surgery) Training
 - 10.IDT
 - 11.0ther
- 8. Have you worked with any Desert Shield casualties (1=yes, 2=no).

B.6. Social Field Stress

Investigators used the following Likert scale to assess this factor:

Many people experience stress and/or concern during times of deployment. Using the scale provided, rate the degree of STRESS you believe each of the individuals listed below experienced during the week you were deployed. (1=none, 7=a great deal, 8=not applicable):

- 1. You, yourself
- 2. Your spouse/significant other
- 3. Your children
- 4. Your supervisors
- 5. Your coworkers

B.7. Social Support

The degree of social support received from individuals both during deployment and during the past week were measured in the following way:

FOR THE WEEK YOU WERE DEPLOYED, please indicate the degree of support or lack of support -- emotional or practical -- you felt from each of the following individuals. Circle the number that best applies for each item. (1=very unsupportive, 5=very supportive, 6=not applicable).

- 1. Pamily
- 2. Priends
- 3.Coworkers
- 4. Supervisors

In the PAST WEEK, please note the degree of support of lack of support -- emotional or practical -- you have felt from each of the following individuals. Circle the number that best applies for each item. (1=very unsupportive, 5=very supportive, 6=not applicable).

- 1. Family
- 2.Friends
- 3.Coworkers
- 4.Supervisors

B.8. Perceived Social Support

perceived social support from family and friends was assessed using Procidano and Heller's Perceived Social Support Scales (1983). These scales are 20-item self-report instruments designed to measure the extent to which the individuals perceive that their needs for support, communication and sharing are met by family or friends. Reliability and validity assessments indicate that these are valid constructs (Procidano and Heller, 1983) that are reliable and generalizable to different populations (Lyons et al., 1988)

Fatigue, sleep, weight gain and medical care were assessed by the following items:

1.Approximately how many hours of sleep did you average per day during the past week? _____ hours

the US	NS Cor es, ga es. lo	fort? lined to st we:	or los weight ight about t			since	you v	were as	signe	d to
3.Rate Comfor		fatigu	ied you	felt	the F	rst v	ieek o	N BOARI) the	USNS
		1	2	3	4	5	6	7		
not at all fatigued				somewhat extremely fatigued fatigued						
4.Rate	pon :	fatigu	ed you	felt	THIS PA	st we	EK.			
		1	2	3	4	5	6	7 		
	not at				omewhat atigued			extremation fation		

III. RESULTS

A. Description of Respondents

A.1. Demographics

250 hospital personnel aboard the Comfort chose to respond to survey. They ranged in age from 18 to 55. The positivelyskewed distribution had a mean age of 28.5 years with a median of 26 years. 55% of the respondents were male; 44% were female.

Respondents were predominately white (79%) with 11% being African-American, 5.8%, Hispanic, and 3.3% oriental. Over half (54%) were never married, while 30% reported being in first-time marriages. 6% were either divorced and remarried or divorced and living with a significant other while 4% were separated or divorced and not remarried. 3.6% were single and living with someone. Over 32% reported having children; of these the number of children ranged from one to four with 86% having one or two.

With respect to education, 3.5% never graduated from high school; 26% were high school graduates and 26% reported having some college. Bachelor's degrees were held by almost 33% with a remaining 11% having M.A.s or doctorates.

Regarding rank, 39.1% of respondents were E1-E4's; another 10.9% were E5-E9. Officers comprised almost an additional 50% of those answering the survey. Rank 01-03 composed 29.4% of the total group with officers in the 04-06 group making up 18.2% of the respondents. An additional 2.4% were comprised of other individuals.

Almost 48% were hospital corpsmen with the next largest occupational group being nurses (almost 35%). Doctors comprised 7.9% of the group and the remaining 11% were in other occupational groups.

A.2. Prior Experience

82% reported no sea duty prior the Comfort deployment while 87% had no isolated duty prior to deployment. Likewise, the majority (94%) had no prior experience in the Middle East. 68% had never participated in a disaster or mass casualty event. However, almost 73% had worked with dead bodies and almost as many (71%) had a patient die while in their care.

With regard to Operational Readiness Training Experiences, 85% reported no Fleet Marine Force experience. 57% did not have ACLS training. An even greater number (71%) had no Advanced Trauma Life Support (ATLS) training. 74% had no C4 readiness training. 54% had no Damage Control training. Nonetheless, 83% reported having had shipboard orientation.

89% had no MMART team experience while 90% had no RADMUF training. 95% had no MEDSTAR (Trauma Surgery) training and 97% had no IDT training. Almost 50% reported some other type of readiness training. 75% noted that at the time they answered the survey they had worked with Desert Shield casualties.

A.3. Physical Health and Medical Care

Respondents rated themselves as being, on average, more than somewhat fatigued during their first week on board the Comfort (4=somewhat fatigued, mean rating was 5.24). At the time they

answered the survey they felt, on average, somewhat fatigued (mean rating was 4.27). When asked the number of hours of sleep they averaged per day in the past week, responses ranged from three to twelve hours, with a mean of 6.6 and a median of 6 hours.

31% reported they had gained weight since their assignment to the Comfort while 31% noted that they had lost weight. And the remaining 37% stayed the same.

The majority (95%) did not have an annual physical since coming onboard the Comfort. However, 57% did report seeking medical care for a physical problem while only 7% sought care for an emotional problem. Only 12% indicated that they felt they were in need of medical care but did not obtain any.

B. Univariate Comparisons by Sex

[Note: Actual tables from this section may be found in Appendix B, Tables B.1-B.30. and Tables B.89-B.94]

B.1. Demographics

Of those who responded to the Comfort survey, women tended to be older (i.e. between 26 and 55) and men were younger (Chisquare=5.724, df=1, p=.017).

The majority of the health personnel respondents were white --at least 3/4. Proportionally, there were more white females than there were white males. Of the minorities, men were more likely to be African-American and Hispanic while women were more likely to be African-American. (Chi-square=10.347, df=4, p=.035).

The women were more educated with half having BAs. This is probably consistent with their status as nurses. The majority of men were either high school graduates or had some college training (Chi-square=55.930, df=4, p=.000).

The majority of women were single -- never married -- over 3/5 with only 1/2 men in the never married category. Moreover, proportionally, twice as many men as women were in the first-time married category (38% vs 20%) (Chi-square=12.582, df=5, p.028). Accordingly, given their marital status, over 3/4 women were likely to be childless relative to 3/5 of the men (Chi-square=8.217, df=1,p=.004)

Of those having children, there were no statistically significant differences between the sexes in the number of children each reported having (Chi-square=1.638, df=3, p=.651). Over 85% reported having two children or less.

B.2.Operational Experience and Training

Women were less likely to report having prior sea duty

(Fisher's exact test p=.000). Over nine out of ten of the women said they had no such experiences relative to seven out of ten of the men. There were no statistically significant differences between the sexes in whether they had worked before in the Middle East environment; the majority of both said they had not (Fisher's exact test p=.274).

Concerning Desert Shield experiences, far more of the men (4/5) reported having worked with such casualties than the women (2/3) (Fisher's exact test p=.011).

More men reported isolated duty experience (Fisher's exact test p=.082) and participation in mass casualty/disaster event (Fisher's exact test p=.038). Nonetheless, the majority of respondents of both sexes had no such experiences. Women, on the other hand, were more likely to report having had patient die who was in their care (Fisher's exact test p=.035).

There were no statistically significant differences between the sexes in having worked with dead bodies; about seven out of ten of each sex had (Pisher's exact test p=.775) such a background.

More women than men reported no experience with field medical support school, although a majority of each sex had not (Fisher's exact test p=.000).

There were also statistically significant differences between the sexes in the numbers reporting advanced cardiac support training; more women reported yes (50:50) than men (Fisher's exact test p=.057). However, three out of five males had damage control training while seven out of ten women had not (Fisher's exact test p=.000).

More men than women related having mobile medical acute response training (Fisher's exact test p=.009) and trauma surgery training (Fisher's exact test p=.04) -- although the majority of both sexes did not.

There were no statistically significant differences between the sexes in experience as an independent duty technician (Fisher's exact test p=.062), in RADMUF training (Fisher's exact

test p=.152), in the completion of courses dealing with command combat casualty (Fisher's exact test p=.116) and advanced trauma life support (Fisher's exact test p=.285). The majority of each sex had no experience or training in these areas. On the other hand, over eight out of ten of each sex had shipboard orientation (Fisher's exact test p=.389).

B.3. Perception of Stressors

In the Gulf War, heat was a significant problem. There were no significant differences between men and women in their perception of this stressor (Fisher's exact test p=.871); approximately 81% of each group rated this factor as being moderately to extremely stressful. Likewise, separation from family was perceived as being moderately to extremely stressful for over 85% of each sex (Fisher's exact test p=.323).

On the other hand, there were differences between the sexes in their reports of the stressfulness of fear of fire (Fisher's exact test p=.026). Three out of four of the men reported no or little fear relative to over 60% of the women.

Another stressor in which men differ from women is that of fear of terrorist attack (Fisher's exact test p=.001). Over seven out of ten men felt little or no concern regarding this factor relative to approximately 50% of the women.

There were also differences -- approaching statistical significance -- in the numbers of men reporting little to no fear of the ship's sinking (77%) versus the number of women indicating that this was a concern (66%) (Fisher's exact test p=.111).

Comfort hospital ship personnel were also queried regarding fear of death -- their own and that of others. There were statistically significant differences between the sexes regarding fear of their own deaths (Fisher's exact test p=.003). Sixtyeight percent of the men expressed little or no fear of their own demise in contrast to fifty percent of the women. Likewise, there were statistically significant differences between the sexes regarding the fear of the death of others (Fisher's exact test p=.00001). Over 70% of the women reported moderate or extreme levels of stress while over 50% of the men noted little or no stress on consideration of this factor. Similarly this pattern of responses holds for queries regarding the stress of handling combat casualties, i.e. over three out of four of the women note moderate to extreme stress in this area while over half the men, again, report little or no stress (Fisher's exact test p=.000001). This may be due to the high proportion of women who were nurses; nursing is a profession which emphasizes responsibility for patient care as part of its socialization.

More women reported high levels of fear of the unknown than men (Fisher's exact test p=.0001); 86% of the women versus 64% of the men.

B.4. Stress Reducers

There were statistically significant differences between the sexes in their perception of the helpfulness of the gym in reducing stress (Pisher's exact test p=.004). 83% of the men and 66% of the women found this place to be moderately to extremely

helpful in stress reduction.

There were also significant differences between the sexes in reported helpfulness of the weather decks in reducing stress (Fisher's exact test p=.0004). Fully, 92% of the women and 75% of the men noted that this outdoor area was moderately to extremely helpful. There does seem to be a slight tendency for women to prefer the weather decks and the men, the gym.

The opportunity to get away from it all has been explored in several questions. There were no statistically significant differences in the rated helpfulness of reading; 81% of the men and 79% of the women noted this as moderately to extremely helpful (Fisher's exact test p=.743). Moreover, the group was split almost 50:50 regarding perceptions of the library's value; there were no statistically significant differences by sex (Fisher's exact test p=.182). Movies, on the other hand, were reported to be moderately to extremely helpful to 77% of the men and only 56% of the women. This difference is statistically significant (Fisher's exact test p=.0006). This particular constellation of differences may be due to the type of movie being shown, to the greater room afforded women who may be preponderantly officers and to officer-enlisted differences in the pursuit of leisure activities.

Social support can function as a stress reducer.Comfort survey responses lend support to that finding. A vast majority of both men (92%) and women (89%) note that socializing with friends was moderately to extremely helpful in dealing with stress. There

were no differences between the sexes in their ratings of the importance of this activity (Fisher's exact test p=.497).

Lounges do not seem to be places where a great deal of socializing occurs. Almost half of both men and women rated this activity as of no or little help in stress reduction (Fisher's exact test p=.562).

Regarding support from the outside, if separation from family was uniformly rated as stressful, then reading and writing mail was a saving grace to Comfort crew members. 94% of the men and 93% of the women noted that reading mail was moderately to extremely helpful. As expected, there were no differences between the sexes on their rating of this event (Fisher's exact test p=1.000). Moreover, the majority of both groups (88% for men and 86% for women) related that writing mail was likewise helpful. Again there were significant differences between the sexes here (Fisher's exact test p=.562).

It may seem paradoxical that time spent alone was also rated highly by both groups; 86% of the men and 88% of the women felt it was moderately to extremely helpful. (Fisher's exact test p=.698). However, Dineen, Pentzien and Mateczun (1994) in their description of life aboard the Comfort note that lack of privacy was a significant concern for hospital staff.

Finally, there were no significant differences in the responses of men and women to the stress-reducing properties of eating. About half of each group rated this factor as moderately to extremely helpful (Fisher's exact test p=.361).

B.5. Physiological stress/arousal

There were no differences between the sexes in the numbers reporting a weight change. Roughly a third of each noted that they had gained weight, lost weight or stayed the same (Chisquare=.159, df=2, p=.923).

Responses to hours of sleep could categorize individuals into short, normal or longer sleepers according to criteria defined by Kaplan, Saddock & Grebb (1994). Anyone sleeping from six to nine hours was seen as normal; sleep less than that was categorized considered be short; more than nine hours, as long. There were no statistically significant differences between men and women in the amount of sleep reported (Chi-square =.775, df=2, p=.679). Over 70% of each sex fell in the range of six to nine hours.

Women reported feeling more fatigued the first week of deployment (t=-4.3267, df=245, p=.0000) and were also more tired than men during the past week (t=-2.9768, df=242, p=.0032).

Stress, coping and physiological symptoms are likely to result in more physician visits. Comfort staff were asked to indicate whether they received various types of medical care.

with regard to annual physical exam, there were no statistically significant differences in the number of men and women reporting having one (Fisher's exact test p=.146). Three percent of the men and 7% of the women indicated "yes" to this question.

Nonetheless, women were more likely to report having medical

care for physical problems (Fisher's exact test p=.038). 64% of the women relative to 50% of the men noted that they needed such attention. This was not true for medical care for emotional problems. Few individuals of each sex reported problems with these issues (Fisher's exact test =.128) -- 10% of the women and almost 5% of the men. Nor were there any differences in the numbers of men and women needing -- but not receiving -- medical care (Fisher's exact test p=.543). Again, these percentages were small (10% for men and 14% for women).

B. 6. SCL-90 Mood

Sex differences in four mood subscales of the SCL-90 were investigated. There were no statistically significant differences between the sexes in their answers to somatization questions (t=-.8090, df=224, p=.4194) and to the hostility subscale (t=1.1884, df=224, p=.2359). Women did report that they were more anxious (t=-2.3717, df=223, p=.0186) and more depressed (t=-1.9973, df=223, p=.0470) than their male counterparts.

B.7. Ways of Coping

Men reported more acceptance of responsibility than did women (t=2.9696, df=224, p=.0033). There were an additional two subscales where the difference between men's responses and those of women approached statistical significance. Men related more confrontive coping (t=1.9611, df=220, p=.0511); and more planful problem solving (t=1.6692, df=222, p=.0965).

There were no statistically significant differences between the sexes in their responses to escape-avoidance, positive

reappraisal, distancing, self-controlling and seeking social support (t=-.8817, df=219, p=.3789; t=-.7479, df=216, p=.4553; t=1.3341, df=216, p=.1836; t=-.4483, df=221, p=.6544; t=-1.2253, df=220, p=.2218, respectively).

B. 8. Social Field Stress

women related more stress to the news of their deployment experienced by themselves (t = -5.6318, df=242, p=.0000); by their children (t=-3.5532, df=217, p=.0005); by their supervisors (t=-4.0778, df=236, p=.0001) and by their coworkers (t=-3.9613, df=237, p=.0001) than men. There were no significant differences between the sexes in their ratings of stress experienced by spouses (t=.9530, df=199.6, p=.3418), however.

B.9. Social Support

As noted earlier, social support has been shown to be significant buffer against the vicissitudes of life. Respondents were asked to indicate the supportiveness of various individuals in their social fields in the past week and during the week of deployment.

During the week of deployment -- women reported more support received from friends (t=-2.9169, df=238, p=.0039); from coworkers (t=-3.1529, df=240, p=.0018) and -- approaching significance-- from supervisors (t=-1.7938, df=235, p=.0741) than did men. There were no significance differences in support noted from family (t=.0234, df=242, p=.9814). This was true despite the fact that women saw these same individuals as being more stressed by their leaving.

On the other hand -- during the past week -- there were no differences in reported support from family (t=-.9722, df=232.5, p=.3320); from friends (t=-.2032, df=238, p=.8391); from coworkers (t=-1.3760, df=237, p=.1701) or from supervisors (t=-.8834, df=232, p=.3779) between the sexes.

This pattern of responses is further sustained by scores on measures of perceived social support from significant others and from friends. As before, women reported more support from friends (t=-4.0522, df=233, p=.0001) than did men, but there were no differences in perceived support from significant others (t=1.3100, df=169, p=.1920).

C. Factor Analysis

We submitted responses to the nine-item, Comfort-specific stressors to exploratory factor analysis. The method of factor extraction was principal factors using one as the prior communality estimate. The factors were then subjected to an uncorrelated or orthogonal rotation. First, we used responses from all respondents, a total of 239 out of 250 people. Using an eigen value of 1.00 as a cutpoint, three factors were retained.

An item was said to load on a factor if its correlation with the rotated factor pattern was greater than or equal to .40. According to this criterion, five items were said to load on factor one: fear of fire stress, fear of terrorist stress, fear of dying , fear of the ship's sinking and fear of others' deaths. This we called the injury factor and it accounted for 66% of the common factor variance. The actual loadings are shown in Table 1.

Table 1: Rotated factor pattern and communality estimates from principal factor analysis of total respondents to Comfort-specific stressors. Orthogonal rotation. Comfort survey, time 1.

Rotated Factor Pattern

Item F	ACTOR1	FACTOR2	FACTOR3 C	ommunalities
Heat stress Separation from family Fear of fire Fear of terrorists Fear of ship sinking Fear of dying Fear of others' deaths Combat casualties stress Fear of the unknown	0.11251 0.17025 0.77894 0.78980 0.90375 0.61778 0.40307 0.06390 0.16796	0.07224 0.35991 0.15946 0.20190 0.12647 0.33597 0.60350 0.66964 0.80411	0.87216 0.16752 0.18140 0.06399 0.04677 0.04008 0.02612 -0.03391 0.07228	0.186589 0.665080 0.668648 0.834952 0.496131 0.527360 0.453644
Variance explained by each factor	2.66535	6 1.789044	0.83658	5

Final Communality Estimate: Total = 4.673443

The second factor was composed of three items: combat casualties stress, fear of the unknown and fear of the death of others. This accounted for an additional 20% of the common factor variance. We felt that for our hospital personnel respondents this factor dealt with having to master performance demands, so we named it the trauma-related work demands factor.

Heat stress was the only item that loaded highly on the third factor. It accounted for 14% of the common factor variance.

One item, separation from family stress, although rated as highly stressful by both sexes, did not load highly on any factor.

we then did another factor analysis omitting the heat stress and separation from family stress items which did not cluster with any other variables during the first factor analysis. The methods we used were the same: principal factors with a varimax rotation.

This time we ended up with two factors— our original injury factor and the work demands factor. The first factor now accounted for 77% of the common factor variance; the second, for 23% of the common factor variance. Items loading on each factor were the same.

C.1. Factor analysis by sex

We then divided the respondents by sex and did a separate factor analysis for males and females using the same procedures described above. Complete responses were available to the stressors scale for 128 out of 138 of the male respondents.

Results are shown in Table 2. As with the total group, three factors were extracted. Four items loaded on factor 1: fear of fire, fear of terrorists, fear of the ship's sinking and fear of dying. This factor accounted for 60% of the common factor variance and once again might be considered an injury factor.

Factor 2 accounted for 25% of the variance and was composed of three items: fear of others' death, combat casualties stress and fear of the unknown. As with the total group, it seemed to address mastery of work demands.

And factor 3, representing 14% of the common factor variance, was comprised of only one item:heat stress. Once again, separation from family did not load highly on any one factor.

As we did before we removed the two items dealing with heat and separation from family stress and submitted the remaining items to another factor analysis. As before, all technical procedures were the same.

Once again we had the same items loading on the same two factors, injury and mastery of work demands. Factor 1 accounted for 71% of the common factor variance and factor 2, for almost 29% of the common factor variance.

We then turned to the female respondents. 110 subjects out of 111 women had complete responses available for the principal factor analysis (orthogonal rotation). Two factors were extracted; these were similar in concept to those found for males and the total group.

Factor 1 (injury) was composed of four items: fear of fire,

Table 2: Rotated factor pattern and communality estimates from principal factor analysis of male respondents to Comfort-specific stressors. Orthogonal rotation. Comfort survey, time 1.

Rotated Factor Pattern

Item	FACTOR1	FACTOR2	FACTOR3	Communalities
Heat stress Separation from family Fear of fire Fear of terrorists Fear of ship sinking Fear of dying Fear of others' deaths Combat casualties stress	0.08854 0.13481 0.70294 0.78494 0.88960 0.57470 0.30390 -0.01685 0.13401	-0.01600 0.37488 0.10037 0.14483 0.05102 0.31418 0.49997 0.61637 0.82169	0.78020 0.19701 0.18497 0.07002 -0.06825 0.11388 -0.03241 -0.13214 0.06258	.616804 .197524 .538414 .642015 .798649 .441957 .343379 .397658
Variance explained by each factor	2.368537	1.578212	0.726693	.037042

Final Communality Estimate: Total = 4.673443

fear of terrorist attack, fear of the ships' sinking and fear of dying. It represents 79% of the common factor variance. Factor 2 (work demands stress) was comprised of four items: separation from family, fear of the death of others, combat casualties stress and fear of the unknown. With this factor 20% of the common factor variance was accounted for. Results are shown in Table 3. Heat stress did not cluster with any of the other items and did not load highly on either of the two factors.

It is probably significant that for women separation from family loaded highly with what we have come to call the work demands factor. However, in the subsequent factor analysis, we decided to remove both heat stress and separation from family stress as we did with the men because we felt that family concerns might provide differential responses between men and women in subsequent analyses and to put it in with work demands would be to bury important gender differences.

So, once again we submitted the remaining items to another factor analysis using the same technical procedures as before. Once again we extracted two factors -- the same two factors as before: injury, composed of fear of fire stress, terrorist attack, ship sinking and others dying and work demands encompassing fear of the death of others, combat casualties and fear of the unknown. Factor 1 represented 79% of the common factor variance with factor 2 accounting for an additional 20% of the variance.

What emerges from this series of analyses is a picture of the remarkable stability of the latent structures underlying responses to the Comfort-specific stressors. Injury and work demands. In fact if we turn these two factors into subscales we can examine their internal

Table 3: Rotated factor pattern and communality estimates from principal factor analysis of female respondents to Comfort-specific stressors. Orthogonal rotation. Comfort survey, time 1.

Rotated Factor Pattern

Item	FACTOR1	FACTOR2	Communalities
Heat stress	0.20344	0.26101	.109517
Separation from family	0.21581	0.41526	.219018
Fear of fire	0.84148	0.22821	.760167
Pear of terrorists	0.77777	0.24577	.665335
Fear of ship sinking	0.92931	0.18359	.897329
Fear of dying	0.62154	0.34962	.508539
Fear of others' deaths	0.44256	0.69741	.682239
Combat casualties stress	0.08813	0.67609	.464866
Fear of the unknown	0.16236	0.78550	.643379
Variance explained by each factor	2.880902	2.069486	

Final Communality Estimate: Total = 4.950388

consistency reliabilities in comparison to the coefficient alpha for the total scale items. These results are shown in Table 4.

Coefficient alpha for the original nine-item scale for all respondents is a very respectable .82. However, for the injury subcale it is now .87 -- somewhat higher than .82 especially given that the number of items has been reduced from 9 to 4 with this subscale, and, as the reader is aware, psychometric experts (Nunnally, 1978) maintain that longer scales make for more reliable ones. And the work demands subscale -- an even shorter subscale -- has an alpha reliability of .77.

Similar patterns hold for both men and women, although for men the total scale reliability is somewhat lower: .77 with the injury subscale alpha equal to .83 and that of the work demands subscale equal to .71. For women the internal consistency reliability for the total scale is .86; for the injury subscale, .89 and for the work demands subscale, .80. All of this point to the remarkable stability and internal consistency of the new subscales: injury and work demands.

Rather than using nine separate and distinct stressor variables or a stressor total score we decided to use the two factors (injury and trauma-related work demand) and the two items of heat stress and family separation as variables to be used in further analyses.

Responses to the Comfort-specific stress reducers were also submitted to factor analysis. Methods of factor extraction were the same except where specifically indicated, i.e. we used principal factor analysis with an orthogonal rotation.

For men, 128 out of 138 repondents had complete records.

From this group, four factors emerged from the analysis. Factor one

Table 4: Internal consistency reliabilities for the Comfort-specific stressors for all items and for two factor subscales, Comfort dataset, time 1.

Coefficient alpha

<u>Items</u>	Total	Males	Females
Total scale (9 items) Injury subscale fear of fire fear of terrorist attack fear of ship sinking fear of dying	.82 .87	.75 .83	.86 .89
Work demands subscale fear of others' deaths combat casualty stress fear of the unknown	.77	.71	.80

accounted for 56% of the common factor variance and was composed of two items: reading mail and writing mail. Two questions also loaded highly on factor two; these items were reading and time using the library. This reading factor accounted for almost 20% of the common factor variance. Pactor three, making up over 12% of the variance, was comprised of three items: time on the weather decks, time alone and eating. We called this the self-soothing factor. And the final factor explained 12% of the variance. It was composed of going to the movies, eating and being with a friend. Two items did not load highly on any factors: going to the gym and using the lounges. (see Table 5.) This does not mean that these two events/stress reducers are worthless -- rather, they do not reflect a similar underlying trait or type of stress reducer and, in fact, they probably contribute something unique to life on the Comfort for men.

Eighty of the 111 observations were available for factor analysis among the women respondents. With them four factors -- although decidedly different from the men's -- emerged. Factor 1 accounted for over 42% of the common factor variance. It was composed of two items: reading and going to the library. Factor 2 was made up of variables dealing with the gym and going to the movies. This factor represented almost 26% of the variance. Eating and time spent alone constituted the third factor which explained an additional 17% of the variance. The fourth and final factor was formed of items reading and writing mail. This factor represented 12% of the variance. Three items did not load highly on any factor: weather decks, lounges and time spent with a friend. (Table 6). As with the men's view of lounges and the gym, these last three stress reducers probably represent something unique

Table 5: Rotated factor pattern and communality estimates from principal factor analysis of male respondents to Comfort-specific stress reducers. Orthogonal rotation. Comfort survey, time 1.

Rotated Factor Pattern

	FACTOR1	FACTOR2	FACTOR3	FACTOR4	Communalities
Gym	0.02527	0.28021	-0.05815	0.13550	.100896
Movies	0.05919	0.29084	0.13124	0.59636	.460960
Eating	-0.10195	-0.07395	0.53045	0.45522	.504473
Weather decks	0.18093	0.11581	0.68960	0.01194	.521843
Lounges	0.07023	0.34328	0.23759	0.30407	.271683
Reading	0.11406	0.88793	0.27076	0.09246	.883286
Time alone	0.35875	0.24613	0.48302	0.02532	.423227
Library	0.21357	0.43439	0.37137	0.16813	.400488
With friend	0.23012	0.14325	-0.01587	0.51869	.342762
Reading mail	0.91210	0.00300	0.13147	0.15300	.872620
Wriing mail	0.63365	0.15252	0.12271	0.09323	.448530
Variance explained by each factor	1.525917	1.381305	1.311114	1.012432	2

Final Communality Estimate: Total = 5.230768

Table 6: Rotated factor pattern and communality estimates from principal factor analysis of female respondents to Comfort-specific stress reducers. Orthogonal rotation. Comfort survey, time 1.

Rotated Factor Pattern

Item	FACTOR1	FACTOR2	FACTOR3	FACTOR4	Communalities
Gym Novies Eating Weather decks Lounges Reading Time alone Library With friend Reading mail	-0.17459 0.04293 0.00357 0.14444 0.24523 0.93103 0.39105 0.50390 0.37449 0.11194	0.63170 0.73488 -0.04312 0.10755 0.25533 -0.17736 0.07789 0.01554 0.34556 0.37448	0.02663 -0.04038 0.95543 0.23194 0.15621 0.13797 0.45977 0.00902 0.09534 0.10413	0.20566 0.08986 0.10327 0.22958 0.05375 0.06470 -0.01331 0.34822 0.07596 0.49846	.472531 .551600 .925379 .138935 .152621 .921502 .370554 .375493 .274512
Writing mail	0.08844	0.12009	0.04146	0.84058	.730545
Variance explained by each factor	1.547591	1.329545	1.245539	1.203072	

Final Communality Estimate: Total = 5.325747

in the view of women on board the Comfort.

clearly, between men and women relevant factors underlying responses to the stress reducers are different; the factors which emerged are not alike nor do they account for comparable amounts of the common variance. Therefore, we concluded that just because men and women are doing the same things one cannot assume that the same psychosocial, stress-reducing mechanism is operating. Therefore, we do not include factor analysis for the total group.

In addition, the factor structure within sexes is not stable, like it was with the stressors, as further analyses not reported here indicate. Therefore, in the section on MANOVA and least square means we use all the stress reducers as outcome measures; we do not group them into subscales as we can with the stressors.

D. Sex and Occupation Effects

D.1.Manova

Because sex and occupation were so intimately intertwined, with the majority of nurses of nurses being women and the majority of corpsmen being men, we decided to examine the effects of sex, occupation and their interaction on time 1 stressors, coping devices and mood states. This was done first looking at nurses versus all other respondents and then for nurses versus corpsmen only with the responses of all others treated as missing values. Manova's were done on conceptual sets of responses i.e. on stressors or on coping devices as a group of dependent variables.

D.1.a.: Nurses versus all others

Comfort-specific stressors

As was previously mentioned the original nine-item scale dealing with perception of Comfort-specific stressors was reduced to two items and two factors: heat stress, separation from family stress, a factor dealing with injury and another dealing with trauma-related work demands. Data were assessed using Wilks' lambda. Sex, occupation and the sex-by-occupation were entered into the model at the same time.

We first present the results of the MANOVAs and later the least square means comparisons.

There was a significant interaction of sex-by-occupation in predicting stressor perceptions (Wilks' Lambda = .9497, F[4,222]= 2.9384, p=.0214). In addition, there was also a significant main effect for sex in predicting these effects (Wilks' Lambda = .8743, F[4,22]=7.9782, p=.0001) while the effect of occupation only approached statistical significance (Wilks' Lambda = .9635, F[4,222]=2.1040, p=.0813).

It should be noted that we mention main effects even though the interaction is significant for completeness sake. Many regard attending to significant main effects when a significant interaction has been found to be a controversial area (Jaccard, Turrisi, & Wan, 1990) Comfort-specific stress reducers

Subscale scores derived from factor analysis cannot be used in these analyses because the subscales are different for men and women, so, individual variables will be utilized as the outcomes in the Manova model statement. Neither the sex-by-occupation interaction (Wilks' Lambda=.9315, F[11,167]=1.1169, p=.3510) nor the sex main effect (Wilks' Lambda=.9103, F[11,167]=1.4967, p=.1368) were statistically significant. There was, however, a significant main effect for occupation (Wilks' Lambda=.8703, F[11,167]=2.2631, p=.0135).

Stress of deployment as experienced by the social field

Another block of outcome measures focused on a rating of the stress of deployment as experienced by the respondents, their "significant others", children, supervisors and coworkers.

There was no significant sex-by-occupation effect (Wilks' Lambda = .9718, F[5,212] = 1.2302, p=.2960). However, there were significant main effects for both occupation (Wilks' Lambda=.9290, F[5,212]=3.2409, p=.0077) and for sex (Wilks' Lambda = .9094, F[5,212]=4.2203, p=.0011). Mood Measures: the SCL-90

A subset of the SCL-90 subscales were used as independent variables for this set of analyses. These subscales focused on depression, anxiety, somatization and hostility.

There was neither a significant sex-by-occupation interaction (Wilks' Lambda = .9873, F[4,209]=.6707, p=.6130) nor a significant occupation main effect (Wilks' Lambda= .9816, F[4,209]=.9784, p=4203). However sex did predict SCL-90 subscale scores (Wilks' Lambda = .9529, F[4,209]=2.5831, p=.0382).

Coping Devices: Perceived Social Support

Respondents were also asked to rate perceived social support from respondents and from friends. There was no significant sex-by-occupation effect (Wilks' Lambda=.9759, F[2,158]=.9759, p=.1460). Nor was there a

significant main effect for sex (Wilks' Lambda=.9892, F[2,158]=.8587, p=4257). There was a statistically significant effect for occupation (Wilks' Lambda=.9202, F[2,158]= 6.8555, p=.0014).

Coping Devices: Ways of Coping

The reader will remember that the Ways of Coping measure covers a variety of coping styles: confrontive, distancing, self-controlling, seeking social support, accepting responsibility, escape avoidance, planful problem solving and, finally, positive reappraisal.

There were no significant sex-by-occupation effects in predicting these outcome measures (Wilks' Lambda = .8147, F[8,187]=.5536, p=.8147). Nonetheless, the sex main effect very closely approaches statistical significance (Wilks' Lambda = .9260, F[8,187]=1.8686, p=.0672) while occupation is not significant (Wilks' Lambda=.9392, F[8,187]=1.5141, p=.15647).

D.1.b.: Nurses versus Corpsmen

As mentioned earlier, similar tests were done limited the study respondents to nurses and hospital corpsmen. All analyses were done in the same way as in Part 1.

Comfort-specific Stressors

The interaction of sex-by-occupation was statistically significant in predicting responses to the Comfort-specific stressors (Wilks' Lambda= .9481, F[4,181]=2.4784, p=.0457).

This was also true for both main effects of sex (Wilks' Lambda= .8655, P[4,181]=7.0334, p=.0001) and occupation (Wilks' Lambda= .9373, P[4,181]=3.0254, p=.0191).

Comfort-specific stress reducers

In comparing the responses of nurses and corpsman, there was no significant sex-by-occupation interaction in predicting this set of variables (Wilks' Lambda=.9492, F[11,134]=.6526, p=.7806).

Nonetheless, sex and occupation are significant independent variables (for sex, Wilks' Lambda=.8541, F[11,134]=2.0813, p=.0257 and for occupation, Wilks' Lambda=.8250, F[11,134]=2.5832, p=.0053).

Stress of Deployment as Experienced by the Social Field

When considering perceived stress experienced by the self and others in the individual's social field as an outcome, there was no significant sex-by-occupation interaction (Wilks' Lambda= .9684, F[5,173]=1.1288, p=.3469) in anticipating it. There were, nonetheless, significant main effects for sex (Wilks' Lambda= .9266, F[5,173]=2.7401, p=.0207) and for occupation (Wilks' Lambda=.9199, F[5,173]=3.0098, p=.0124).

Mood Measures: the SCL-90

There was no significant sex-by-occupation interaction in forecasting this set of independent variables (Wilks' Lambda=.9823, F[4,170]=.7679, p=.5475). Main effects approach significance (for sex, Wilks' Lambda=.9538, F[4,170]=2.0588, p=.0884 and for occupation, Wilks' Lambda=.9549, F[4,170]=2.0053, p=.0959).

Coping Devices: Perceived Social Support

A significant effect for occupation (Wilks' Lambda=.8856, F[2,124]=8.0064, p=.0005) exists but not for sex (Wilks' Lambda=.9828, F[2,124], p=.3420). The sex-by-occupation interaction approaches significance (Wilks' Lambda=.9622, F[2,124]=2.4332, p=.0919)

Coping Devices: Ways of Coping

Only the occupation main effect was significant with this set of predictors (Wilks' Lambda=.8812, F[8,150]=2.5287, p=.0131). Both the interaction term (Wilks' Lambda=.9802, F[8,150]=.9802, F[8,150]=.3792, p=.9303) and the sex main effect (Wilks' Lambda=.9118, F[8,150]=.3056, p=1.000) were not.

D.2. Least Square Means

[Note: these are presented along with actual mean values in Appendix B, Tables B.95-B101.]

We now turn to a consideration of pairs of significant effects by sex, occupation or by sex within occupation. We examine only those comparisons where Manova has shown the effect to be significant for a particular group of variables. A summary of significant Manova's is shown in Table 7. Significance is assessed by t-tests on the least square means.

D.2.a.: Nurses versus all others

Stressors

The sex main effect and the sex-by-occupation interaction are significant. Specifically, women have significantly higher scores on the mean fear of injury factor (t=-2.7018, p=.0074); women are also significantly higher on the mean fear of trauma-related work demands factor as well(t=-4.8799, p=.0001). There were no statistically significant sex differences on ratings of the heat stress (t=-.15578, p=.8748) or the separation from family variables (t=.7854, p=.4330).

With respect to significant interactions, women non-nurses are

Table 7: Summary of p-values for Manovas using sex, occupation and sex-by-occupation effects in predicting various sets of outcomes for nurses versus all other respondents and for nurses versus hospital corpsmen. Comfort Study, time 1.

Concept	<u>Effect</u>	Respond	ent Group
	Nurs	es v others	Nurses v corpsmen
Stressors	sex	*	*
	occupation	ns	*
	interaction	*	*
Stress	sex	ns	*
reducers	occupation	*	*
	interaction	ns	ns
Social	sex	*	*
field	occupation	*	*
stress	interaction	ns	ns
SCL-90	sex	*	ns
B CO d	occupation	ns	ns
	interaction	ns	ns
Perceived	sex	ns	ns
social	occupation	#	*
support	interaction	ns	ns
Ways of	sex	ns	ns
Coping	occupation	ns	*
- -	interaction	ns	ns

^{*} p <.05
ns=not significant

significantly higher on injury stress (t= -3.5442, p=.0005) and on trauma-related work demands stress (t=2.5151, p=.0126) than men non-nurses and also than male nurses (for injury stress, t=2.1694, p=.0311; for work-demands stress, t=.3.1704, p=.0017)

Moreover, women nurses rate themselves most highly - of any other group - on work demands stress -- higher than their male nurse colleagues (t = 4.1838, p=.0001) and their non-nurse male shipmates (t = 4.5860, p=.0001).

There were no significant interaction effects for heat stress or for separation from family stress.

Stress Reducers

There were significant occupational effects regarding the Comfort-specific stress reducers. Nurses rated eating and reading mail as being more helpful than non-nurses. (t=-2.5949, p=.0103 and t=-2.4764, p=.0142, respectively).

Social Field Stress

women reported themselves as experiencing more stress to the news of deployment (t=-2.9761, p=.0033); they also noted that their children were significantly more stressed than did men respondents (t=-2.5897, p=.0103).

Nurses recalled significantly more stress felt by supervisors (t=3.7157, p=.0003) and coworkers (t=-3.2437, p=.0014) to the news of their deployment than did all other respondents.

SCL-90 Mood

Despite the fact that Manova reveals a signficant sex effect, least square means t-tests show two effects which

only approach statistical significance: depression and anxiety. Women showed more depression (t=-1.7328, p=.0846) and more anxiety (t=-1.8440, p=.0666) than men.

Perceived Social Support

Nurses reported significantly more social support from friends than did all other respondents (t=-3.5554, p=.0005).

Ways of Coping

Manova revealed no significant effects for sex, occupation or sex-by-occupation interaction.

D.2.b.: Nurses versus corpsmen

[Note: The actual least square means along with the t-tests are shown in Appendix B, Tables B.102-B.107]

Stressors

Women reported significant higher stress levels on the injury factor (t=-2.6864, p=.0079) and on the trauma-related work demands factor (t=-4.7466, p=.0001). Nurses related more significantly more separation from family stress than did corpsmen (t=-2.2457, p=.0259)

There was also a significant sex-by-occupation effect in predicting responses to stressors. With regard to fear of injury stress --which the reader will remember is composed of items dealing with fear of fire, terrorists, the ship's sinking and fear of dying -- female corpsmen reported the highest stress ratings of any sex-by-occupation group when occupation is limited to nurses and corpsmen. They are signicantly higher than male corpsmen (t=3.1392, t=.0020); than male nurses (t=2.3604, p=.0193); and than female nurses (t=-2.1921, p=.0296).

on the other hand, female nurses related the highest stress responses to the trauma-related work demands factor, composed of questions dealing with combat casualties, the unknown and the death of others. They scored significantly higher than male corpsmen (t=4.1439, t=.0001) and male nurses (t=4.1728, p=.0001) but not in comparison to female corpsmen (t=.4807, p=.6313).

Female corpsmen also scored significantly higher than their male occupational counterparts (t=2.3843, p=.0181) and male nurses (t=3.2707, p=.0013).

With regard to separation from family, female nurses scored higher than male corpsmen (t=2.1046, t=.0367) in their ratings of this stressor.

Stress Reducers

After limiting the sample to just nurses and corpsmen, men, relative to women, rated going to the movies (t=2.3775, p=.0187) and reading mail (t=2.4445, p=.0157) as significantly more helpful. Murses, relative to corpsmen, rated eating (t=-3.1974, p=.0017) and reading mail (t=2.4445, p=.0157) as significantly more helpful.

Social Field Stress

Women reported that they experienced significantly more stress to the news of deployment than did men (t=-2.4967, p=.0135). Nurses noted that they experienced more stress at this time (t=-2.0555, p=.0413) than did corpsmen. In addition, nurses related more stress experienced by supervisors (t=-3.5171, p=.0006) and by their coworkers (t=-2.8820, p=.0044).

SCL-90 Mood

Using Manova, there were no significant sex, occupation, or sex-by-occupation effects.

Perceived Social Support

Nurses related significantly more social support from friends than did corpsmen (t=-3.9778, p=.0001).

Ways of Coping

Corpsmen related more confrontive coping (t=2.4706, p=.0146), more distancing (t=2.0678, p=.0403) and more escape avoidance (t=2.4879, p=.0139) than did nurses.

E. Sex and Age Effects

B.1.Manova

Analyses similar to those done for sex and occupation were done for sex and age. Age was dichotomized into younger (between 18 and 25) and older (between 26 and 55) based on the median age of 26.

Stressors

There were significant main effects for sex (Wilks' Lambda=
.8549, F[4,229]=9.7137, p=.0001) and for age (Wilks' Lambda =
.9229, F[4,229]=4.7784, p=.0010), but there was no significant age-bysex interaction (Wilks' Lambda = .9800, F[4,229]=1.1660,
p=.3266).

Stress Reducers

Sex was a significant main effect (Wilks' Lambda = .8443,

P[11,175]=2.9331, p=.0014); nonetheless, the age effect and the ageby-sex interaction were not (for age, Wilks' Lambda= .9164,

F[11,175]=1.4501, p=.1545; for the interaction, Wilks' Lambda=

.9440, F[11,175]=.9439, p=.4998).

Social Field Stress

Sex and age were significant main effects (for sex, Wilks' Lambda= .7869, F[5,218]=11.8101, p=.0001; for age, Wilks' Lambda= .9012, F[5,218]=4.7765, p=.0004). However, there was no significant age-by-sex interaction (Wilks' Lambda=.9654, F[5,218]= .1.5621, p=.1720).

SCL-90 Nood

Once again, sex (Wilks' Lambda=.9012, F[4,215]= 5.8916, p=.0002) and age (Wilks' Lambda=.8885, F[4,215]= 6.7486, p=.0001) predicted significant main effects. The sex-by-age interaction did not (Wilks' Lambda=.9706, F[4,215]=1.6269, p=.1686).

Perceived Social Support

There was no significant main effect for age (Wilks' Lambda=.9964, F[2,162]=.2887, p=.7496) or for the age-by-sex interaction (Wilks' Lambda=..9874, F[2,162]=1.0332, p=.3582). Nonetheless, sex produced a significant main effect (Wilks' Lambda=.8983, F[2,162]=9.1661, p=.0002).

Ways of Coping

For the fourth time, sex and age predicted significant main effects (for sex, Wilks' Lambda= .8497, F[8,191]= 4.2218, p=.0001; for age, Wilks' Lambda= .8860, P[8,191]= 3.0722, p=.0028). And the sex-by-age interaction was not significant

E.2. Least Square Means

{See Appendix B, Tables B.108-B.113 for actual means along with

(Wilks' Lambda=.9263, F[38,161]=.3372, p=.9999.

t-tests]

As with sex and occupation, comparisons between pairs of means were next examined for those effects found significant by Manova.

Least square means was used. Table 8 summarizes the effects tested by Manova by each set of outcome variables.

Stressors

Women related more fear of injury stress (t=-3.3654, p=.0009) and more trauma-related work demands stress (t=-6.0121, p=.0001). However, the older group reported less trauma-related work demand stress (t=3.2632, p=.0013), but more heat stress (t=-2.2179, p=.0275).

Stress Reducers

Men reported that movies were more helpful in reducing stress than women (t=3.3924, p=.0008); however, women found the weather decks more beneficial (t=-2.5839, p=.0105).

Social Field Stress

During the week of deployment, women experienced significantly more stress themselves than did men (t=-4.9289, p=.0001). They also noted significantly more stress in their children (t=-3.7499, p=.0002); in their supervisors (t=-3.6205, p=.0004) and in their coworkers (t=-3.2113, p=.0015) than did men.

Younger respondents reported significantly more stress in their children than did older ones (t=4.4727, p=.0001).

SCL-90 Mood

Women related significantly more depression and anxiety than did men (for depression, t=-2.6240, p=.0093; for anxiety, t=-2.8711,

Table 8: Summary of p-values for Manovas using sex, age and sex-by-age effects in predicting various sets of outcomes for all respondents. Comfort Study, time 1.

Concept	<u>Effect</u>	Significance
Stressors	sex age interaction	* * ns
Stress reducers	sex age interaction	* ns ns
Social field stress	sex age interaction	* * ns
SCL-90 mood	sex age interaction	* * ns
Perceived social support	sex age interaction	* ns ns
Ways of Coping	sex age interaction	* * ns

^{*} p <.05
ns=not significant</pre>

p=.0045).

The younger somatized more (t=3.8040, p=.0002). They were also more depressed (t=3.9910, p=.0001); more anxious (t=3.5630, p=.0005) and more hostile (t=5.0694, p=.0001).

Perceived Social Support

Women noted significantly more social support from friends than did their male counterparts (t=-3.6865, p=.0003).

Ways of Coping

Men reported more confrontive coping (t=2.2812, p=.0236), more acceptance of responsibility (t=2.5066, t=.0130) and more planful problem solving (t=1.9626, p=.0511) than did women.

Younger repondents described more confrontive coping (t=2.5264, p=.0123), more seeking social support (t=2.0355, p=.0431) and more escape avoidance (t=3.6177, p=.0004).

IV. DISCUSSION

Concerns of Comfort hospital personnel seemed to focus on two areas: their life situations on board ship and their worries about the folks back home.

Part 1. Life on Board Ship

personnel, namely nurses, as involving danger and the severity of patient casualties (Baker, Menard & Johns, 1989; Stretch, Vail & Maloney, 1985). This is true even if they viewed their service in a war zone as having a positive impact on their lives or if they indicated that they would have gone to Vietnam again (Baker, Menard & Johns, 1989).

These factors of concern over personal safety and treatment of combat casualties are exactly those that we found among both men and women on a hospital ship. We have documented, however, that women or some occupational subgroup of women report higher levels of stress on one or both of these factors than men.

Women report more fear of trauma-related work demands. This is particularly true of women nurses who rate themselves in the moderately stressful range on the work demands factor.

Women non-nurses are particularly high on fear of injury, i.e. fear of fire, terrorists, the ships' sinking and fear of dying, than any other sex-occupational group.

These effects are still evident when the comparisons are limited to nurses and corpsmen. In fact, women corpsmen are also high on traumarelated work demands stress.

Nurses in other studies have rated themselves as highly stressed by work demands especially regarding issues related to dying. These studies have also shown other work factors such as non-trauma work demands, job control including control over one's work pace, physical environment and the availability of supplies (Haynes, 1991) and supervisory/coworker support (Constable & Russell, 1986) to be important. An examination of many of these factors was beyond the scope of this study but may be important for future research.

Perceived stress may also be a function of the type of unit in which the nurse works (Caldwell & Weiner, 1981) and whether the nurse is in a supervisory role (Caldwell & Weiner, 1981). We have no information on the effects of these factors at this time. Sample size is probably too small to do a meaningful analysis on these factors.

We do know that there were no statistically significant differences between the sexes in the amount of support received from coworkers and supervisors during the week the survey was completed.

Nonetheless, we do not know how the same group of military nurses rate these non-war zone factors during their shore duty work and how these expectations change during deployment in the same group. Anecdotal evidence indicates that there is a sense of "making do" during war zone service (McCarthy, 1995) and that, perhaps, there should be training in making do at least in regard to such things as the availability of supplies. This has certainly been one reason for physicians' study of military medical history.

Nurses reported more support from their friends than did any other group. Whether friends were coworkers is not known. Given that

respondents lived and worked in the same place, i.e. the ship,
we don't know if such distinctions are even important or for what issues
they may be most salient.

Given that social support has been shown to have such salubrious effects and given that women corpsmen report high trauma-related work demands it may be necessary to augment the social support networks of women corpsmen. It is also unknown the extent to which women corpsmen feel supported by their male corpsmen counterparts is also unknown.

another issue in this regard is important. One study has reported that military nurses, relative to a group of civilian ones, report less support from their supervisors and less coworker cohesion (Robinson et al, 1993). If the military continues its current practice of deploying reservists and national guardsmen, it may be important to keep this in mind if these reservists are ever integrated in with the "regulars." The expectations of the former civilian nurses may be different. In general it is useful practice to facilitate the development of social networks for all groups.

This is further shown in the emotional responses during deployment. When occupation was controlled, women showed more depression and anxiety than men in effects which approached statistical significance. When age was controlled these effects found reached statistical significance.

Moreover, after sex was considered in the equation the younger (18-25 year olds) respondents somatized more; they were also more depressed, more anxious and more hostile.

The young showed higher levels of confrontive coping, seeking

social support and escape avoidance. The first two are problem solving modes of coping and the third is emotion focused. Because this was a seven-month project, we cannot say at this time which coping style was associated with what emotional response.

Being older made respondents less prone to work demands stress. It is not known whether being older exempts one from work demands and puts one in an administrative position on board a hospital ship. If this is so, of course, this would mean one has less anticipated exposure to trauma; however, as we indicated earlier, being a nursing supervisor has its own stresses with the nurse frequently being caught between administration and nursing personnel.

With age factored in, men report more confrontive coping, acceptance of responsibility and planful problem solving than women. Again, this is a mix of problem and emotion focused coping.

Given women's greater propensities to depression and anxiety this suggests that these types of coping, among other things, may be what keeps men from getting depressed or anxious. Time and money limitations keep us from pursuing further analyses which would clarify these relationships.

Turning to some of the bivariate analyses we note that there were no differences between the sexes in the amount of sleep reported. Over 70% fell in the range of six to nine hours. This was the case despite the fact that insomnia is associated with depression (Ford & Kamerow, 1989) and that women reported being more depressed than men. In the NIMH ECA longitudinal studies women do have higher prevalent insomnia than men (Ford & Kamerow, 1989) and, if that insomnia did not

resolve itself by the second visit one year later, it was associated with a greater likelihood of major depression. Perhaps the depression felt by Comfort respondents truly resolved itself or perhaps the feeling of fatigue is more important. In fact, women on the Comfort reported greater feelings of fatigue. This is an area for further investigation.

Despite these higher levels of depression among women as a group, they did not report seeking more health care for emotional problems than men. Only 10% of the women and 5% of the men reported doing so; this difference was not statistically significant.

Women did, however, report seeking more medical care for physical problems than did men. We cannot at this time say whether these women were more depressed. However, primary care physicians should be alerted to this possibility. If depressed women are not entering the medical care system to any significant degree, this provides further need for the development of social support networks on a ship-wide basis.

Part 2: The Folks Back Home

Children left behind during a deployment continue to be of concern to deployed men and women and to the military services.

separation from family was rated as one of the most stressful experiences by both sexes. Moreover, younger respondents and women reported that their children were more stressed by the news of deployment than older respondents or men. Nurses also experienced more stress themselves to the news of deployment and they later indicated that reading mail was a great stress reducer. It is interesting to speculate that some of the stress of the news of deployment involved

leaving family members and that mail allayed some of these worries.

This raises a number of interesting questions for which we have no data. What type of child care arrangements do older service members make so that there is less worry for them? Does it involve the presumed older ages of the children and less impact of parental separation or does it concern actual child care arrangements?

Grandparents have been considered to be a source of numerous types of help to parents: financial aid, information, and emotional support (Tinsley & Parke, 1987). Do older service members utilize the help of grandparents during deployment while younger ones do not? Is this because older service members have resolved their own parental conflicts to some extent? If so, can something be done of foster a resolution of these conflicts?

However, other factors may be at work. Pearson et al. (1990) write, "Whether entrance to grandparenthood was early or on time has also been found to affect grandmothers reactions [to resuming any parenting role with regard to grandchildren] with early grandmothers experiencing more role overload (responsibilities of their own minor children, other family member care, employment) compared to their on-time counterparts" (p.440).

Moreover, there is some evidence that in parenting the two party system works best. Both in a representative national sample (Dornbusch et al, 1985) and in an inner city cohort (Ensminger, Kellam & Rubin, 1983), mother-alone families were associated with a greater incidence of truant behavior in children. In the inner city cohort, mother-stepfather families also fared poorly. The two-party system may not necessarily be

limited to the traditional mother-father combinations (Ensminger, Kellam & Rubin, 1983).

Furthermore, there may be cultural constraints and facilitions. White middle class families may feel expectations from their families to go out and be nuclear while African-American families may tend to be extended (Pearson et al, 1990). Pearson et al. (1990) also note that grandparent involvement may vary by social class, age, ethnic group, family structure and cohort.

These studies have dealt with civilian populations. If we pursue this we know little about the expectations of parents regarding their adult children who have entered military service.

This may also influence family dynamics.

Purther research is needed in this area using a sample of sufficient size to accommodate the diversity of responses to the problem. Investigators in this study only had access to one hospital ship because they knew one of the psychiatrists on board.

We also recommend that further studies using surveys consider supplementing the findings with intense structured interviews of key informants from several groups of interest on board ship. This should be done immediately after their tour on board is over in order to elucidate many of these relationships.

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VI. APPENDIX A: THE COMFORT SURVEY - TIME 1

USNS COMFORT QUESTIONNAIRE

Please return to:

Robert J. Ursano, M.D.
Col, USAF, MC, FS (Ret)
Department of Psychiatry
Uniformed Services University of the Health Sciences
4301 Jones Bridge Road
Bethesda, Maryland 20814-4799

VOLUNTEER AGREEMENT

- 1. <u>NATURE OF THE STUDY</u>. The purpose of this research is to assess the psychological and behavioral responses to traumatic events over time.
- 2. <u>BENEFIT OF THE STUDY</u>. You will have no direct benefit from this study. Information gathered in this study will help determine positive and negative consequences of traumatic events over time to help minimize psychosocial disruption in military units and communities experiencing such events.
- 3. <u>RISKS, INCONVENIENCES, AND DISCOMFORTS</u>. Taking these surveys involves no known risks, inconveniences or discomforts.
- 4. <u>CONFIDENTIALITY OF RESEARCH RESULTS</u>. All information about you and your answers obtained from this questionnaire will be treated as confidential information and protected by the Privacy Act Statement of 1974. This information will be available only to the staff of the Department of Psychiatry, Uniformed Services University of the Health Sciences.
- 5. <u>SAFEGUARDS</u>. Taking these surveys involves no known health risks which require safeguards. Results that are reported will be done in such a way that your answers given here cannot be associated with your name or any other identifying information.
- 6. <u>ALTERNATIVES TO PARTICIPATION IN THIS STUDY</u>. You have the right to withdraw consent to participate in this study at any time. If you decline to participate or leave the study, this will in no way count against you, and you will incur no loss of benefits to which you are entitled.
- 7. <u>COST TO YOU FROM PARTICIPATING</u>. The only cost to participating in this study is the time it takes to fill out the questionnaires.
- 8. <u>VOLUNTEER STATEMENT</u>. I hereby volunteer to participate in this research being conducted by the Department of Psychiatry, Uniformed Services University of the Health Sciences, Bethesda, Maryland. Should you have any question about this research project, contact: Robert J. Ursano, M.D., Col, USAF, MC, FS (Ret), Professor, Acting Chairman, Department of Psychiatry, USUHS, 4301 Jones Bridge Road, Bethesda, Maryland 20814-4799.

PARTICIPANT'S SIGNATURE	DATE		
ROBERT J. URSANO, M.D. (Principal Investigator's Signature	DATE	MICHAEL DINNEEN, M.D. LCDR, MC, USN (Principal Investigator's Signature)	DATE
CAROL S. FULLERTON, Ph.D. (Investigator's Signature)	DATE		

USNS COMFORT QUESTIONNAIRE

INSTRUCTIONS

This survey is designed to provide information about your health at this time and your experience of the deployment of the USNS Comfort. The information from this survey will be used to better understand psychological and behavioral responses to deployment and traumatic events.

There are no right or wrong answers to the questions. Just answer the questions the way you feel about them. The important thing is **TO ANSWER ALL QUESTIONS COMPLETELY**. Most questions can be answered by circling a number corresponding to a ready-made answer or by writing in a brief description.

The information you provide will only be seen by the research team and staff. Your individual answers will be combined with those of the other participants for reporting results. You are requested to provide your full name in the appropriate place on the answer sheet.

** You may wish to complete the survey at one time or you may find it helpful to complete the survey over the next two or three days, spending 15 minutes or so each day. We realize that there is a great deal of information contained in the survey. We appreciate your time and interest.

Version 3.07	
26 November 1990	
(USNS Comfort: Time	1)

Subject Number:	(1-4)
Project Code:	(5-7

PART I: BACKGROUND INFORMATION

Please answer the questions below by filling in the blanks or circling the number of the response that best applies.

В	1.	Name:	
В	2.	Today's Date: (month/day/year)///	(8-13)
В	3.	Rate/Rank: Military Unit:	(14-17
В	4.	Age:years	(18-19
В	5.	Sex:	
		 Male Female 	(20)
В	6.	Marital status:	
		 Single (never married) Single and living with a significant other Married (only once) Separated or divorced and not remarried Divorced and remarried/divorced and living with a significant other Other 	(21)
В	7.	Do you have children?	
		 Yes; number of children: No 	(22) (23-24
В	8.	Occupation: 1. With your military unit	(25-26
		2. Other	(27-28
В	9.	Highest level of education you have completed:	
		 Less than grade 12 High School Some College Bachelor's Degree Master's Degree Posterate Degree (M.D., D.D.S. or Ph.D.) 	(29)

В	10.	Racial/Ethnic Background:	
		 White Black Oriental Hispanic Other 	(30)
В	11.	WORK ADDRESS:(prior to deployment)	
		HOME ADDRESS:	
		PART II: PRIOR EXPERIENCE	
С	1.	Duty station prior to deployment: Describe duties below:	(31)
С	2.	Have you had sea duty prior to the USNS Comfort deployment?	(32-34B)
		1. Yes	(35)
		2. No If yes, what was the length of duty? months	(36-37)
		Please describe:	(38-39B)
С	3.	Have you had isolated duty prior to the USNS Comfort deployment?	
		1. Yes	(40)
		2. No If yes, what was the length of duty? months	(41-42)
		Please describe:	(43-44B)
С	4.	Have you had prior experience in the Middle East?	(45)
		1. Yes 2. No	·
		If yes, what was the length of duty? months Please describe:	(46-47)
		1 jease deserroe.	(48-50B)

5.	Have you ever participated in a disaster or mass casualty event?	
	1. Yes 2. No	(51)
	If yes, describe where & when event(s) occurred & your participation:	(52-54B)
6.	Have you ever worked with dead bodies?	
	1. Yes	(55)
	2. No	
	If yes, describe:	(56-58B)
7.	Have you ever had a patient die while in your care?	
		(59)
	2. No	` '
	If yes, describe the event(s) and your reaction:	(60-62B)
8.	Please indicate your participation in these Operational Readiness Training Experiences (circle 1. Yes or 2. No for each item)	(40)
	1. TVISS (Teet Warmer dec)	(63) (64)
	Z. ACLD	(65)
	J. A1LD	(66)
	4. \(\frac{1}{2}\)	(67)
	J. Damage Condor Hammig	(68)
	7 MMART Team Experience 1. Yes 2. No	(69)
	8 RADMUF Training	(70)
	9. MEDSTAR (Trauma Surgery) Training	(71)
	10. IDT	(72)
	11. Other:	(73)
9.	Which kind of experience or training did you find most useful? Why?	(74-76B)
		(77-82B)
	PART III: PRESENT EXPERIENCE	
1.	Date you arrived on the USNS Comfort: (month/day/year)///	(83-88)
	 7. 8. 	1. Yes 2. No If yes, describe where & when event(s) occurred & your participation: 6. Have you ever worked with dead bodies? 1. Yes 2. No If yes, describe: 7. Have you ever had a patient die while in your care? 1. Yes 2. No If yes, describe the event(s) and your reaction: 8. Please indicate your participation in these Operational Readiness Training Experiences (circle 1. Yes or 2. No for each item) 1. FMSS (Fleet Marine Force)

E 2. How did you first hear of the possible deployment of the USNS Comfort?	
---	--

(89-91B)

E 3. Describe your initial response to learning of your deployment:

(92-94B)

E 4. Describe your first 3 days on the USNS Comfort (your feelings, activities, etc): (95-97B)

E 5. Where on the ship do you work?

6.

E

DivisionBranchWork Center	(98-103)	
How many people do you bunk with?	(104-105)	

E 7. How helpful are the following leisure activities in reducing stress? (circle the number that best applies for each item below)

	1	2	3	4	5	6	7				8		
	NOT AT ALL HELPFUL							TREM ELPFI		NOT APPLICABLE			
					• • •	t at all lpful					Extremely ! Helpful	Not Applicab	le
1	Gvm					i 2	3	4	5	6	7	8	(106)
2							3	4	5	6	7	8	(107)
3						_	3	4	5	6	7	8	(108)
4							3	4	5	6	7	8	(109)
5							3	4	5	6	7	8	(110)
6.	Reading	••••••				1 2	3	4	5	6	7	8	(111)
7	Time Al	one				1 2	3	4	5	6	7	8	(112)
7. 8.							3	4	5	6	7	8	(113)
9.							3	4	5	6	7	8	(114)
	Deading	Meil	Hends			-		4	5	6	7	8	(115)
10.	Reading	Man	•••••			_		4	5	6	7	8	(116)
11.		Mail	•••••			1 2	2	4	5	6	7	8	(117)
12.	Other:					1 2	3	4	3	O	1	o	(117)

E 8. How stressful have the following items been to you on this deployment? (circle the number that best applies for each item below)

9.

10.

11.

12.

13.

E

Ε

E

E

E

1 2 3 4	5	6	7				8		
NOT AT ALL MODERATE STRESSFUL STRESSFUL			EXTR STRE				NOT APPLICA	BLE	
	Not at Stress						Extremely Stressful	Not Applicable	?
1. Heat		2	3	4	5	6	7	8	(118)
Separation from Family		2	3	4	5	6	7	8	(119)
3. Fear of Fire		2	3	4	5	6	7	8	(120)
4. Fear of Terrorist Attack		2	3	4	5	6	7	8	(121)
5. Fear of Ship Sinking		2	3	4	5	6	7	8	(122)
6. Fear of Your Own Death		2	3	4	5	6	7	8	(123)
7. Fear of the Death of Others		2	3	4	5	6	7	8	(124)
8. Fear of Caring for Combat Casualties		2	3	4	5	6	7	8	(125)
9. Fear of the Unknown		2	3	4 .	5	6	7	8	(126)
12. Other:		2	3	4	5	6	7	8	(127)
Describe the most difficult (stressful)) aspects	s of yo	our de	ploy	ment	:			(128-130B)
Describe positive aspects of your de	ploymen	it:			•				(131-133B)
What has helped you cope with your	assignm	ent to	the l	USN:	S Co	mfor	t?		(134-136B)
Have you worked with any Desert Sh	nield cas	ualtie	s?				į		
1. Yes									
2. No If yes, describe:							(13	7)	
									(138-140B)
How do you maintain your own mora	ale?							•	
									(141-143B)

E 14. Compared to other groups in which you have worked, please rate your work group's present morale.

MUCH LOWER

AVERAGE

MUCH HIGHER

E 15. Many people experience stress and/or concern during times of deployment Using the scale provided, rate the degree of STRESS you believe each of the individuals listed below experienced during the week you were deployed.

	1	2	3	4	5	6					8		
	NONE			MODEF	RATE			GREA EAL	T		NOT APPLICA	BLE	
											4 Great	Not	
					Noi	ne					Deal	Applicab	le
1	Von w	oursalf					3	4	5	6	7	8	(145)
1.	Vour ce	onee/e	ionifica	nt other	r	1 2	3	4	5	6	7	8	(146)
2.							3	4	5	6	7	8	(147)
3. 1							3	4	5	6	7	8	(148)
4. 5.	Your co	oworke	ers			1 2	3	4	5	6	7	8	(149)

FOR THE WEEK YOU WERE DEPLOYED, please indicate the degree of support or lack of support--emotional or practical--you felt from each of the following individuals. Circle the number that best applies for each item.

		VERY UN-SUPPORTIVE 1	FAIRLY UN-SUPPORTIVE 2	NEU	TRAL	FAIRI SUPP 4	LY ORTIVE	VERY SUPPORTIVE 5	
			Vo UN-Supp	ery ortive			Very Supportive	Not Applicable	
Е	16.	Family			3	4	5	6	(150)
_	10.		•••••		3	4	5	6	(151)
E	17.				3	4	5	6	(152)
E E	18. 19.				3	4	5	6	(153)

In the PAST WEEK, please note the degree of support or lack of support-emotional or practical-you have felt from each of the following individuals. Circle the number that best applies for each item.

		VERY UN-SUPPORTIVE 1	FAIRLY UN-SUPPORTIVE 2	NEUT	ΓRAL	FAIRLY SUPPORTIVE 4		VERY SUPPORTIVE 5	
			V UN-Supp	ery portive			Very Supportive	Not Applicable	
177	20.	Family			3	4	5	6	(154)
E	21.	,	•••••		3	4	5	6	(155)
E	22.		•••••		3	4	5	6	(156)
E	23.	- - · · .			3	4	5	6	(157)

E	24.	Approximat during the p	ely how mai	ny hours of s	leep did you	average p	per day				
		228 and b		· ·	hour	·s				(15	8-159)
E	25.	Have you of	otained any	medical care	since comin	g onboard	the USNS	Comfort?			
		 For phys For emo I have fe 	sical problem tional or far elt in need of	n(s)nily problem f medical car	(s) e but have n	ot obtained	d any	1. Yes 2 1. Yes 2 1. Yes 2 1. Yes 2	2. No 2. No 2. No	(16) (16) (16)	1) 2)
		,	•	•	, 1			•			
										(16	4-166B)
E	26.	Have you ga	ined or lost	any weight	since you we	ere assigne	d to the US	NS Comf	ort?		
		 Yes, gai Yes, los No, I we 	t weight	he same						(16	7)
E	27.	Rate how fa	tigued you f	felt the FIRS	r week on	BOARD th	e USNS Co	omfort.			
		1	2	3	4	5	6	7		(16	8)
		NOT AT AI FATIGUED			SOMEWHA FATIGUED			EXTREM! FATIGU			
E	28.	Rate how fati	gued you fe	lt THIS PAST	WEEK.						
		1	2	3	4	5	6	7		(16	9)
		NOT AT AI FATIGUE			SOMEWHA FATIGUED			EXTREMI FATIGU		(17	0-172B)
	•				$\mathbf{H}_{\mathbf{A}}$	AR					
	thi	Below are sink each one i	tatements al s true in ger	bout life that neral by circ	people ofter ling a numb	ı feel diffe er. Please	rently abou give your	nt. Indicat own hones	e how m st opinion	uch ya ıs.	ou
			AT ALL TRUE 0	A LITTLE TRUE 1	QU: TRI 2	UE	COMPLI TRU 3				
H H H H H	2. P 3. N 4. I 5. T 6. V	flost of my life lanning ahead lo matter how don't like to rhe "tried and Vorking hard y working ha	l can help av hard I try, nake change true" ways a doesn't matt	void most fut my efforts uses in my ever are always be er, since only	ure problem sually accomyday schedu esty the bosses	splish nothileprofit by it	ingt	0 0 0	1 2 1 2 1 2 1 2. 1 2 1 2	3 3 3 3 3 3 3	(173) (174) (175) (176) (177) (178) (179)

		NOT AT ALL TRUE	A LITTLE TRUE	QUITE TRUE	COMPLETELY TRUE				
		0	1	2	3				
		25	is its at moont to	, ha	0	1	2	3	(180)
H	8.	Most of what happens in life	is just meant to	hom work	0	î	2	3	(181)
H	9.	When I make plans, I'm cert	ain I can make t	neni work	0	i	2	3	(182)
H	10.	It's exciting to learn something	ing about mysell		٥	ì	2 2	3	(183)
H	11.	I really look forward to my	work			1	2	3	(184)
H	12.	If I'm working on a difficult	task, I know w	nen to seek neip	V	•	-	-	(201)
**	12	I won't answer a question u	ntil I'm really su	re I understand it	0	1	2	3	(185)
H	1.4	Tiles a lot of cominter in my	vork			1	2	3	(186)
H	14.	Most of the time, people list	en carefully to v	what I sav	0	1	2	3	(187)
H			e nerson just le	ads to frustration	0	1	2	3	(188)
H	16.		ally nave off		0	1	2	3	(189)
H	17.	Trying your best at work re-	any pays on	•••••					
	10	My mistakes are usually ver	v difficult to co	rect	0	1	2	3	(190)
H	18.	It bothers me when my daily	routine gets in	terninted	0	1	2	3	(191)
Н	20	Mark and athletes and less	lare are horn no	st made		1	2	3	(192)
Н	20.	I often wake up eager to tak	re un my life wh	erever it left off	0	1	2 2	3	(193)
H	21.	Lots of times, I don't really	know my own n	nind	0	1	2	3	(194)
H	22.	Lots of times, I don't reany	Kilow my own i						
**	22	I respect rules because they	ouide me		0	1	2	3	(195)
H	24	I like it when things are line	ertain or unpred	lictable	U	1	2	3	(196)
H H	24.	I can't do much to prevent i	t if someone wa	nts to harm me	0	1	2	3	(197)
	25. 26.	Changes in routing are inter	esting to me		U	1	2	3	(198)
H H	20. 27.	Mant days life is really into	recting and excit	ing for me		1	2	3	(199)
	20	It's hard to imagine anyone	cetting excited a	about working	υ	1	2	3	(200)
H	∠o. 20	What happens to me tomor	row depends on	what I do today	0	1	2	3	(201)
H	∡۶. 20	Ordinary work is just too be	oring to be wort	h doing	0	1	2	3	(202)
H	<i>3</i> 0.	Ordinary work is just too or	J5 to 00 11011		•				

IRI

The following statements inquire about your thoughts and feelings in a variety of situations. Using the scale below, please circle the number to the right that indicates how well each item describes you.

		$\underline{1}$ $\underline{2}$ $\underline{3}$ $\underline{4}$					
		DOES NOT DESCRIBE ME WELL	DESC:	RIBE!	1		
R	1.	I daydream and fantasize, with some regularity, about things that might happen to me	2	3	4	5	(203)
R		I often have tender, concerned feelings for people less fortunate than me	2	3	4	5	(204)
R		I sometimes find it difficult to see things from the "other guy's" point of view	2	3	4	5	(205)
R		Sometimes I don't feel very sorry for other people when they are having problems	2	3	4	5	(206)
R	5.	I really get involved with the feelings of the	2	3	4	5	(207)
R	6.	In emergency situations, I feel apprehensive and ill-at-ease	2	3	4	5	(208)

		DOES NOT DESCRIBE ME WELL	DESC VE	RIBES RY W			
R	7.	I am usually objective when I watch a movie or play,					
Л	7.	and I don't often get completely caught up in it1	2	3	4	5	(209)
R	8.	I try to look at everybody's side of a disagreement					
	•	before I make a decision1	2	3	4	5	(210)
R	9.	When I see someone being taken advantage of, I feel	2	3	4	5	(211)
R	10.	kind of protective towards them	2	3	7	,	(211)
K	10.	of a very emotional situation1	2	3	4	5	(212)
R	11.	I sometimes try to understand my friends better by					
		imagining how things look from their perspective	2	3	4	5	(213)
R	12.	Becoming extremely involved in a good book or movie	_	_			(014)
	12	is somewhat rare for me	2 2	3	4 4	5 5	(214)
R R	13. 14.	Other people's misfortunes do not usually disturb me	2	3	4	3	(215)
K	14.	a great deal1	2	3	4	5	(216)
		a groat dout	_	_	•	_	(==,
R	15.	If I'm sure I'm right about something, I don't waste					
		much time listening to other people's arguments1	2	3	4	5	(217)
R	16.	After seeing a play or movie, I have felt as though	_	_	_	_	
_		I were one of the characters	2	3	4	5	(218)
R	17.	Being in tense emotional situations scares me	2	3	4	5	(219)
R	18.	When I see someone being treated unfairly, I sometimes	2	3	4	5	(220)
n	10	don't feel very much pity for them	2 2	3	4 4	5 5	(220) (221)
R R	19. 20.	I am usually pretty effective in dealing with emergencies	2	3	4	5	(222)
R	21.	I believe that there are two sides to every question	_	,	7	,	(222)
	21.	and I try to look at them both1	2	3	4	5	(223)
	•						
R	22.	I would describe myself as a pretty soft-hearted person	2	3	4	5	(224)
R	23.	When I watch a good movie, I can very easily put	_				
		myself in the place of a leading character	2	3	4	5	(225)
R	24.	I tend to lose control during emergencies	2	3	4	5	(226)
R	25.	When I'm upset at someone, I usually try to "put	2	3	4	5	(227)
Ŗ	26.	myself in his shoes" for a while	2	3	•		(221)
īZ	20.	I imagine how I would feel if the events in the			ī		
		story were happening to me1	2	3	4	5	(228)
R	27.	When I see someone who badly needs help in an					` ,
		emergency, I go to pieces	2	3	4	5	(229)
R	28.	Before criticizing somebody, I try to imagine how					
		I would feel if I were in their place1	2	3	4	5	(230)
		PT					
		to the first of th	C:1	a. 1	T		
if i	Re the ite	ead each statement and indicate whether it is True or False for you. m describes you. Circle: 2. False if the item does not describe you	Circi 1.	e: 1.	ırue		•
•		•			_		
P	1. I	have a good appetite	1. Tr	ue :	2. Fals		(231)
P	2. 1	wake up fresh and rested most mornings	1. Tr	ue :	2. Fals	se	(232)

P	3.	My daily life is full of things that keep me interested	2. False	(233)
P	4	Once in a while I think of things too bad to talk about	2. False	(234)
P	5.	I am sure I get a raw deal from life	2. False	(235)
			• = /	(22.6)
P	6.	At times I have fits of laughing and crying that I cannot control	2. False	(236)
P	7	No one seems to understand me	2. False	(237)
P	8	I have nightmares every few nights	2. False	(238)
P	9.	I find it hard to keep my mind on a task or job	2. False	(239)
P	10.	I have very peculiar and strange experiences	2. False	(240)
		_		48.445
P	11.	At times, I feel like smashing things	2. False	(241)
P	12.	Most any time I would rather sit and daydream than		
		to do anything else	2. False	(242)
P	13.	My sleep is fitful and disturbed	2. False	(243)
P	14	I am a good mixer	2. False	(244)
P	15.	I have not lived the right kind of life	2. False	(245)
P	16.	I wish I could be as happy as others seem to be	2. False	(246)
Р	17.	I am troubled by discomfort in the pit of my stomach		
		every few days or oftener	2. False	(247)
P	18	Most of the time I feel blue	2. False	(248)
P	19	I usually feel that life is worth while	2. False	(249)
Þ	20	I do many things which I regret afterwards (I regret		
•	20.	things more or more often that others seem to)	2. False	(250)
		,		
Þ	21	At times, I have the urge to do something harmful or shocking1. True	2. False	(251)
D	22	I don't seem to care what happens to me	2. False	(252)
D.	22.	Most of the time I feel as if I have done something wrong or evil	2. False	(253)
ם	24	I am hanny most of the time	2. False	(254)
P	25	Often I feel as if there were a tight band about my head	2. False	(255)
P	26.	I believe that my home life is as pleasant as that of most people		
•		that I know	2. False	(256)
P	27.	Sometimes I feel as if I might injure either myself or		
_		someone else	2. False	(257)
P	28	I have often lost out on things because I couldn't make up my		
		mind soon enough	2. False	(258)
P	29	Most nights I go to sleep without thoughts or ideas bothering me1. True	2. False	(259)
p	30	I have had periods in which I carried on activities without		
•	50.	knowing later what I had been doing	2. False	(260)
		Miching late: What I had been desing the same	1	
D	31	I am afraid of losing my mind	2. False	(261)
D	32	I frequently find myself worrying about something	2. False	(262)
T D	32.	I dream about things frequently which are best kept to myself	2. False	(263)
r D	<i>33.</i>	I am never happier than when alone	2. False	(264)
r	25	I am so touchy on some subjects that I can't talk about them	2. False	(265)
ר ה	33. 26	Once in a while I think of things too bad to talk about	2. False	(266)
r	20.	I have had very peculiar and strange experiences	2. False	(267)
P	3/. 20	At times I have fits of laughing and crying that I cannot control	2. False	(268)
Ρ.	38.	I easily become impatient with people	2. False	(269)
P	39.	I have certainly had more than my share of things to worry about	2. False	(270)
P	40.	I have certainly had more than my share of things to worry about	2. False	(271)
P	41.	Most of the time I wish I were dead	2. False	(271)
P	42.	I have strange and peculiar thoughts	2. Faise 2. False	(273)
P	43.	I hear strange things when I am alone	L. Puise	(213)

	Bad words, often terrible words, come into my mind and I cannot get rid of them	2. False	(274)
P 45	Sometimes some unimportant thought will run through		
	my mind and bother me for days	2. False	(275)
P 46	Even when I am with people, I am lonely much of the time	2. False	(276)
P 47	I have sometimes felt that difficulties were piling up so		
	high that I could not overcome them1. True	2. False	(277)
P 48	3. It makes me feel like a failure when I hear of the success of		
	someone I know well	2. False	(278)
P 49	Whenever possible I avoid being in a crowd	2. False	(279)
			(280-282B)

PSS-FRIENDS

Q 1. How many close friends do you have? (People you feel at ease with and can talk to about private matters and can call on for help).

(number)	(283-284)
----------	-----------

The statements which follow refer to feelings and experiences which occur to most people at one time or another in their relationships with friends. For each statement, there are three possible answers: YES, NO, DON'T KNOW. Please circle the answer that best describes your experience.

DON'T

	<u>YES</u>	<u>NO</u>	KNOW	
_	1. No. Charles and the month support I need	2. No	3. DK	(285)
0	1. My friends give me the moral support I need	2. No	3. DK	(286)
0	2. Most other people are closer to their friends than I am		3. DK 3. DK	(287)
0	3. My friends enjoy hearing about what I think	2. No	3. DK	(201)
О	4. Certain friends come to me when they have problems		a D16	(200)
	or need advice	2. No	3. DK	(288)
0	5. I rely on my friends for emotional support	2. No	3. DK	(289)
0	6. If I felt that one or more of my friends were upset with me,			
	I'd just keen it to myself	2. No	3. DK	(290)
0	7. I feel that I'm on the fringe in my circle of friends	2. No	3. DK	(291)
Ŏ	8. There is a friend I could go to if I were just feeling down,			
·	without feeling funny about it later	2. No	3. DK	(292)
0	9. My friends and I are very open about what we think about things	2. No	3. DK	(293)
Ö	10. My friends are sensitive to my personal needs	2. No	3. DK	(294)
U	10. Why monds are benshive to my personal needs			` ,
0	11. My friends come to me for emotional support	2. No	3. DK	(295)
0	12. My friends are good at helping me solve problems	2. No	3. DK	(296)
_	13. I have a deep sharing relationship with a number of friends	2. No	3. DK	(297)
0	14. My friends get good ideas from me about	2.1.0		()
О	how to do things or make things	2. No	3. DK	(298)
_	15 When I and the friends it makes me feel uncomfortable	2. No 2. No	3. DK	(299)
0	15. When I confide in friends, it makes me feel uncomfortable			, ,
O	16. My friends seek me out for companionship	2. No	3. DK	(300)
0	17. I think that my friends feel that I'm good at helping them	• 17	2 DK	(201)
	solve problems	2. No	3. DK	(301)
0	18. I don't have a relationship with a friend that is as			
	intimate as other people's relationships with friends	2. No	3. DK	(302)
	• •			

Λ	19. I've recently gotten a good idea about how to do something			
U	from a friend	2. No	3. DK	(303)
	20. I wish my friends were much different	2 No	3. DK	(304)
O	20. I wish my friends were much different	2	• • • • • • • • • • • • • • • • • • • •	` ′

PSS-SSO

The statements which follow refer to feelings and experiences which occur to most people at one time or another in their relationships with their spouse/significant other (S/SO). For each statement there are three possible answers: YES, NO, DON'T KNOW. Please circle the answer you choose for each item.

Do you have a spouse/significant other? (Circle number below)

1. Yes, I have a spouse/significant other.

2. No, I do not have a spouse/significant other.

(305)

DOMET

If Yes: Complete items below.

If No: Go to the next section on the next page.

	H 100. Go to the home court		DON'T	
	YES YES	<u>NO</u>	KNOW	
F	1. My spouse/significant other (S/SO) gives me the moral			40.0
•	support I need	2. No	3. DK	(306)
F	2. I get good ideas about how to do things or make things from my spouse/significant other (S/SO)	2. No	3. DK	(307)
F	3 Most other people are closer to their S/SO than I am	2. No	3. DK	(308)
F	4 When I confide in my S/SO, I get the idea that it makes	2. No	3. DK	(309)
	them uncomfortable	2. No 2. No	3. DK 3. DK	(310)
F	5. My S/SO enjoys nearing about what I think	2		•
F	6. My S/SO shares many of my interests	2. No	3. DK	(311)
F	7 My S/SO comes to me when s/he has problems or needs advice	2. No 2. No	3. DK 3. DK	(312) (313)
F	8. I rely on my S/SO for emotional support	2. 110	J. DIL	(315)
F	fooling finny about it later	2. No	3. DK	(314)
F	10. My S/SO and I are very open about what we think about things	2. No	3. DK	(315)
	11. My S/SO is sensitive to my personal needs	2. No	3. DK	(316)
F F	12 My S/SO comes to me for emotional support	2. No	3. DK	(317)
F	13 My S/SO is good at helping me solve problems	2. No	3. DK 3. DK	(318) (319)
F	14. I have a deep sharing relationship with my S/SO	2. No	3. DK	(317)
F	15. My S/SO gets good ideas about how to do things or make things from me	2. No	3. DK	(320)
	······································			
F	16. When I confide in my S/SO, it makes me feel uncomfortable	2. No	3. DK	(321)
F	17 My S/SO seeks me out for companionship	2. No	3. DK	(322)
F	18 I think that my S/SO feels that I'm good at helping her/him	2. No	3. DK	(323)
F	solve problems	2. 110	J. D.I.	(525)
F	as other people's relationships with their S/SO	2. No	3. DK	(324)
F	20 I wish my S/SO were much different	2. No	3. DK	(325)
F	21 My S/SO takes care of me more than I take care of them	2. No 2. No	3. DK 3. DK	(326) (327)
F	22. I take care of my S/SO more than s/he take care of me	2. NO	J. DA	(321)

Below are a number of statements which people have used to describe themselves.

Circle the appropriate number to indicate how you feel RIGHT NOW, that is, at this moment.

		NONE OR A LITTLE OF THE TIME	SOME OF THE TIME	GOOD PART OF THE TIME		T OR A		
		1	2	3		4		
				,	1	3	4	(328)
Z	1.	I feel down-hearted an	d blue		2 2	3	4	(329)
Z	2.	Morning is when I feel	the best		2	3	•	
Z	3.	I have crying spells or	feel like it				4	(330)
Z	4.	I have trouble sleeping	at night	1	2	3	4	(331)
Z	5.	I eat as much as I used	to		2	3	4	(332)
z		I still enjoy sex			2	3	4	(333)
_	6.	I notice that I am losin	a weight		2	3	4	(334)
Z	7.	I have trouble with con	g worgin	1	2	3	4	(335)
Z	8.	My heart beats faster t	hon usual	1	2	3	4	(336)
Z	9.	My neart beats faster t	nan usuai	1	2	3	4	(337)
Z	10.	I get tired for no reaso	11		_	-		, ,
Z	11.	My mind is as clear as	it used to be	1	2	3	4	(338)
Z	12.	I find it easy to do the	things I used to	1	2	3	4 .	(339)
Z	13.	I am restless and can't	keep still		2 2	3	4	(340)
Z	14.	I feel hopeful about th	e future		2	3	4	(341)
	15.	I am more irritable tha	n iiciial	1	2	3	4	(342)
Z	13.	I am more irritable tha	n usuai	•••••				
Z	16.	I find it easy to make o	decisions	1	2	3	4	(343)
Z	17.	I feel that I am useful	and needed		2	3	4	(344)
Z	18.	My life is pretty full			2	3	4	(345)
Z	19.	I feel that others would	d be better off if I	were dead1	2	3	4	(346)
Z	20.	I still enjoy the things	Lused to do	1	2	3	4	(347)
L	20.	I sun cinoy the times	i asea to ao	•••••				

WOC (R)

Please read each item below and indicate to what extent you felt or used each of the thoughts or behaviors described to deal with deployment.

		NOT USED	USED SOMEWHAT	USED QUITE A BIT	G		ED . AT I 4	A)EAI	
		1		3			ı		
***	1	Just concentrated on what I	had to do next the next st	ep	1	2	3	4	(348)
W	1.	I tried to analyze the proble	m in order to understand it h	petter	1	2	3	4	(349)
W	2.	Turned to work or substitut	es satisfity to take my mind of	off things	1	2	3	4	(350)
W	3.	Turned to work or substitut	e activity to take my mind o	a do mos moit	1	2	3	4	(351)
W	4.	I felt that time would make	the difference only thing to	o uo was wait	1	2	3	1	(352)
W	5.	Bargained or compromised	to get something positive in	om situation	1	2	3	. *	
w	6.	I did something which I did	n't think would work, but at	least I	1	2	3	4	(353)
		was doing something.	11		1	2	3	4	(354)
W	7.	Tried to get the person resp	onsible to change his mind.		I	2	3	4	• ′
W	8.	Talked to someone to find of	out more about the situation		1	2	3	4	(355)

		NOT USED USED QUITE SOMEWHAT A BIT 1 2 3					ED . AT I	A DEAL	•	,
337	0	Criticized or lectured myself			1	2	3	4	(356)	
W	9. 10.	Criticized or lectured myself. Tried not to burn my bridges,	but leave things open some	ewhat	1	2	3	4	(357)	
W	10.	Hand a miracle would hann	on		1	2	3	4	(358)	
W W	11.	Hoped a miracle would happe Went along with fate; someti	mes I just have bad luck		1	2	3	4	(359)	
W	13.	Went on as if nothing had hap	pened	***************************************	1	2	3	4	(360)	(
••						2	2	4	(361)	
W	14.	I tried to keep my feelings to Looked for the silver lining, so	myself		l	2	3	4	(362)	
W		the bright side of things					3	7		
w	16	Clamb mana than manal			1	2	3	4	(363)	
337	17	I evaressed anger to the nerse	on(s) who caused the proble	em		2	3	4	(364)	(
w	18.	Accepted sympathy and unde	rstanding from someone		1	2	3	4	(365)	
						2	3	4	(366)	
	19.	I told myself things that helpe	d me to feel better	•••••	1	2	3	4	(367)	
W	20.	I was inspired to do somethin	g creative	***************************************	1	2	3		(368)	
W	21.	Tried to forget the whole thir I got professional help	ıg		1	2	2	4	(369)	
W	22.	I got professional help		• • • • • • • • • • • • • • • • • • • •	I	2	3	4	(370)	(
W	23.	Changed or grew as a person	in a good way	•••••	1	2	3	4	(370)	
w	24.	I waited to see what would ha	appen before doing anything	g	1	2	3	4	(371)	
W	25	I apologized or did something	to make up		1	2	3	4	(372)	
W	26	I made a plan of action and for	ollowed it		I	2	3	4	(373)	
117	27	I accented the next hest thing	to what I wanted		l	2	3	4	(374)	- (
w	28.	I let my feelings out somehov	V		1	2	3	4	(375)	
W	20	Realized I brought the proble I came out of the experience	m on myself		1	2	3	4	(376)	
W	30	I came out of the experience	better than when I went in	•	1	2	3	4	(377)	
W	31.	Talked to someone who coll	a an something collected at	out the problem		2	3	4	(378)	
	32.	Got away from it for awhile.	tried to rest or take vacation	on	l	2	3	4	(379)	
	33.		ter by eating, drinking, smo	king	1	2	3	4	(380)	
VV	JJ.	using drugs or medication	i,etc							
337	31	Took a big chance or did son	nething very risky		1	2		4	(381)	
337	25	I tried not to act too hastily of	r follow my first hunch		1	2	3	4	(382)	
W	35. 36	Found new faith			1	2	3	4	(383)	
W	30. 37.	Maintained my pride and kep	t a stiff upper lip		,1	2	3	4	(384)	
W	37. 38.	Rediscovered what is importa	int in life		·1	2	3	4	(385)	
						2	3	4	(386)	
W	39.	Changed something so things	would turn out all right		1		3		(387)	
W	40.	Avoided being with people in Didn't let it get to me; refuse	d to think too much shout	4	1			4	(388)	
W	41.	Didn't let it get to me; refuse	o to think too much about	It	1	2	3	4	(389)	
W	42.	I asked a relative or friend I r	espect for advice		1		3	4	(390)	
W	43.	Kept others from knowing ho	ow oad things were		1	2	3	4	(391)	
W	44.	Made light of the situation; r	elused to get too senous at	Joul It	I	2	3	4	(392)	
W	45.	Talked to someone about hor	W I was reeling	•••••	I	2	3	4	(393)	
W	46.	Stood my ground and fought	for what I wanted	•••••	1			4	(394)	
W	47.	Took it out on other people	T imim-11iti		1	۷. ۲	2	4	(394)	,
W	48.	Drew on my past experiences	s; I was in a similar situatio	n belore	1 1	2	2	4		
W	49.	I knew what had to be done.			l	2	3	4	(396)	
W	50.	Refused to believe that it had	nappenea	•••••	1	2	د	4	(397)	

		**************************************	USED SOMEWHAT	USED QUITE A BIT	-	US GRE	ED.		
		NOT USED	SOMEWHAI 2	3		GILL	4	<i>7</i>	•
		1	2				-		
w	51	I made a promise to myself tha	t things would be differer	nt next time	1	2	3	4	(398)
W	51.	I made a promise to myself that Came up with a couple of solu-	tions to the problem		1	2	3	4	(399)
	52. 52	Accepted it, since nothing coul	d he done		1	2	3	4	(400)
W	33. 54	Accepted it, since nothing cour	n interfering with other th	nings	1	2	3	4	(401)
W	34 .	I tried to keep my feelings from Wished that I could change wh	est had been end or how	I falt	1	2	3	1	(402)
W	55 .	Wished that I could change wh	at had happened of now	1 1011		2	3	•	(402)
w	56	Laborated comething about my	self		1	2	3	4	(403)
	JU.	I changed something about my I daydreamed or imagined a be	tter time or place than th	e one I was in	1	2	3	4	(404)
W	3/.	I daydreamed or imagined a be	des arrest or be over with	b	1	2	3	4	(405)
W	58.	Wished that the situation woul	d go away of be over with	££		2	3	т Л	(406)
W	59 .	Had fantasies or wishes about	now things would turn of	ll	 1	2	2	4	•
W	60.	I prayed			1	2	3	4	(407)
w	61	I prepared myself for the worst I went over in my mind what I	·		1	2	3	4	(408)
337	62	I went over in my mind what I	would say or do		1	2	3 3	4	(409)
W	63	I thought how a person I admit	re would handle this situa	ition and used					
vv	05.	that as a model	to would handle time break		1	2	.3	4	(410)
377	<i>C</i> 1	I tried to see things from the o	ther persons point of view	¥7	1	2	3	4	(411)
	04.	I reminded myself how much v	ware things sould be	~	1	2	3		(412)
W	65.	i reminded myself now much v	vorse things could be	• • • • • • • • • • • • • • • • • • • •	1	. 2	2	4	(412)
W	66.	I jogged or exercised				2	3	4	
W	67.	I tried something entirely differ	rent from any of the abov	e	1	. 2	3	4	(414)
								(41	5-417B)

MFQ

Listed below are a number of statements concerning personal attitudes and traits. Read each item and decide whether the statement is **True** or **False** as it pertains to you personally. Circle 1. True if the item describes you. Circle 2. False if the item does not describe you.

U 1. I could not remove the hook from a fish that was caught	2. False	(418)
U 2. I would feel some revulsion looking at a preserved brain		
in a bottle	2. False	(419)
U 3. If a badly injured person appears on TV, I turn my head away 1. True	2. False	(420)
U 4. I dislike looking at pictures of accidents or injuries in magazines	2. False	(421)
U 5. I do not mind visiting a hospital and seeing ill or injured persons	2. False	(422)
U 6. Medical odors make me tense and uncomfortable	2. False	(423)
U 7. I would not go hunting because I could not stand the		
sight of a dead animal 1. True	2. False	(424)
U 8. Watching a butcher at work would make me anxious	2. False	(425)
U 9. A career as a doctor or nurse is very attractive to me	2. False	(426)
U 10. I would feel faint if I saw someone with a wound in the eye 1. True	2. False	(427)
U 11. Watching people use sharp power tools makes me nervous	2. False	(428)
	2. False	(429)
U 13. I feel sick or faint at the sight of blood	2. False	(430)
U 14. I enjoy reading articles about modern medical techniques	2. False	(431)
anything else	2. False	(432)

U 16.	Under no circumstances would I accept an invitation	-	
	to watch a surgical operation	2. False	(433)
II 17	When I see an accident I feel tense	2. False	(434)
11 18	It would not bother me to see a bad cut as long as it		
0 10.	had been cleaned and stitched	2. False	(435)
II 19	Using very sharp knives makes me nervous	2. False	(436)
11 20	Not only do cuts and wounds upset me, but the sight of people with		
0 20.	amputated limbs, large scars, or plastic surgery also bothers me	2. False	(437)
U 21.	If instruments were available, it would be interesting to see		
.	the action of the internal organs in a living body 1. True	2. False	(438)
11 22	I am frightened at the idea of someone drawing a blood		
·	sample from me	2. False	(439)
11 23	I don't believe anyone could help a person with a bloody wound		
0 23.	without feeling at least a little upset	2. False	(440)
TT 24	I am terrified by the idea of having surgery	2. False	(441)
11 25	I am frightened by the thought that I might some day have		
0 23.	to help a person badly hurt in a car wreck	2. False	(442)
	to help a person badry hair in a our wrook		, ,
II 26	I shudder when I think of accidentally cutting myself	2. False	(443)
11 27	The sight of dried blood is repulsive	2. False	(444)
11 28	Blood and gore upset me no more than the average person	2. False	(445)
11 29	The sight of an open would nauseates me	2. False	(446)
U 29.	I could never swab out a wound	2. False	(447)
0 30.	1 Could Hevel Swad out a wound		

SYM

Below is a list of problems & complaints that people sometimes have. Using the scale below, circle the number to the right that best describes how much discomfort that problem has caused you DURING THE PAST WEEK INCLUDING TODAY. Circle only one number for each problem and do not skip any items.

	NO	OT AT ALL	A LITTLE BIT	MODERATELY	QUITE A BIT	E	KTRI	EMEL	Y		
	2	0	1	2	3			<u>4</u>			
s	1.	Headaches.				0	1	2	3	4	(448) (449)
S	2.	Nervousnes	ss or shakiness insi-	de		0	1	2	3	·A	(450)
S	3.	Repeated u	npleasant thoughts	that won't leave you	ır mına	0	, T	2 2 2	2	4	, ,
S	4.	Faintness of	r dizziness			0	1	2	2	4	(451)
S	5.	Loss of sex	ual interest or plea	sure	•••••	0	1	2	3	4	(452)
c	6.	Feeling crit	ical of others			0	1	2	3	4	(453)
2	7.	The idea th	at someone else ca	n control your thoug	hts	0	1	2	3	4	(454)
S	8.	Feeling other	ers are to blame fo	r most of your troub	les	0	1	2	3	4	(455)
2	9.	Trouble ren	nembering things	n control your thoug r most of your troub		0	1	2	3	4	(456)
S	10.	Worried ab	out sloppiness or c	arelessness		0	1	2	3	4	(457)
ς	11.	Feeling easi	ly annoved or irrita	ated		0	1	2	3	4	(458)
2	12.	Daine in hea	ort or chest			0	1	2	3	4	(459)
S	13.	Feeling afra	id in onen snaces o	or streets		0	1	2	3	4	(460)
_	14.	Ecoling love	in anarov or slow	ed down	•	0	1	2	3	4	(461)
S		Thoughts a	fonding your life		***************************************	0	1	2		4	(462)
5	15.	Thoughts o	rending your me	ole do not hear	***************************************	0	1	2	3	4	(463)
S	16.	Hearing voi	ces that other peop	pie do not near		0	1	4	3	-7	(103)

	NO	OT AT ALL A LITTLE BIT MODERATE	LY QUITE A BIT	EXTRE	CMEL	Y		
		0 1 2	3	4	<u> </u>			
•	17	Toombling		1	2	3	4	(464)
S	17.	Trembling Feeling that most people cannot be trusted	0		2	3	4	(465)
S	18.	Peeling that most people calliot be trusted		1	2	3	4	(466)
S	19.	Poor appetite	٥		2	3	4	(467)
S	20.	Crying easily	٠		2	3	4	(468)
S	21.	Feeling shy or uneasy with the opposite sex	,υ	1	2	J	7	(400)
S	22.	Feelings of being trapped or caught	0	1	2	3	4	(469)
Š	23.	Suddenly scared for no reason		1	2	3	4	(470)
Š	24.	Temper outbursts that you could not control.	0	1	2	3	4	(471)
Š	25.	Feeling afraid to go out of your house alone	0	1	2	3 3 3	4	(472)
Š	26.	Blaming yourself for things	0	1	2	3	4	(473)
S	27.	Pains in lower back	0	1	2		4	(474)
S	28.	Feeling blocked in getting things done	0) 1	2	3	4	(475)
S	29.	Feeling lonely	0	1	2	3	4	(476)
					•	2		(477)
S	30.	Feeling blue) 1	2	3	4	(477)
S	31.	Worrying too much about things) 1	2	3	4	(478)
S	32.	Feeling no interest in things			2	3	4	(479)
S	33 .	Feeling fearful) 1	2	3	4	(480)
S	34.	Your feelings being easily hurt) 1	2	3	4	(481)
S	35.	Other people being aware of your private thou	aghts) 1	2	3	4	(482)
Š	36.	Feeling others do not understand you or are u	nsympathetic) 1	2	3	4	(483)
S	37.	Feeling that people are unfriendly or dislike ye	ou) 1	2	3	4	(484)
S	38.	Having to do things very slowly to insure corn	rectness) 1	2	3	4	(485)
S	39 .	Heart pounding or racing	() 1	2	3	4	(486)
s	40.	Nausea or upset stomach	() 1	2	3	4	(487)
S	41.	Feeling inferior to others		1	2	3	4	(488)
S	42.	Soreness of your muscles	() 1	2	3	4	(489)
S	43.	Feeling that you are watched or talked about	by others () 1	2	3	4	(490)
S	44.	Trouble falling asleep	() 1	2	3	4	(491)
		•			•	3	4	(402)
S	4 5.	Having to check and double-check what you) 1	2			(492) (493)
S	46.	Difficulty making decisions) 1	2	3	4	
S	47.	Feeling afraid to travel on buses, subways, or	trains	0 1	2	3	4	(494)
S	48	Trouble getting your breath		0 1	2	3	4	(495)
S	49.	Hot or cold spells) 1	2	3	4	(496)
S	5 0.	Having to avoid certain things, places, or actibecause they frighten you	vities	0 1	2	3	4	(497)
S	51.	Your mind going blank		0 1	2	3	4	(498)
_	50	No. 1	,	n 1	2	3	4	(499)
S	52.	Numbness or tingling in parts of your body		0 1	2 2	3	4	(500)
S	53.	A lump in your throat		0 I	2	3	4	(501)
S	54.	Feeling hopeless about the future	ا	0 1	2	3	4	
S	55.	Trouble concentrating		0 1	2	3		(502)
S	56.	Feeling weak in parts of your body					4	(503)
S	57 :	Feeling tense or keyed up		0 1	2		. 4	(504)
S	58.	Heavy feelings in your arms and legs		0 1	2	3	4	(505)
S	5 9.	Thoughts of death or dying		0 1	2	3	4	(506)
S	60.	Overeating		0 1	2	3	4	(507)

	NC	NOT AT ALL A LITTLE BIT MODERATELY Q 0 1 2	QUITE A BIT	EXTR	ЕМЕІ <u>4</u>	Y				
		T 1'		- watching or talking	r about you	0 1	2	3	4	(508)
S	61.	Feeling unea	asy when people at	e watching or talking	, about you	0 1	2	3	4	(509)
S	62.	Having thou	ights that are not y	our own	***************************************	0 1	2	3	4	(510)
S	63.	Having urge	es to beat, injure, of	r harm someone else		0 1	2	3	4	(511)
S	64.	Awakening	in the early morning	gons such as touching		•	-	_		(/
S	65.	counting, o	or washing		,	0 1	2	3	4	(512)
_		Q1		ad		0 1	2	3	4	(513)
S	66.	Sleep that is	restiess of distuib	edh things		0 1	2	3	4	(514)
S	67.	Having urge	es to bleak of silias	ners do not share		0 1	2	3	4	(515)
S	68.	Having idea	s of beliefs that ou	th others		0 1	2	3	4	(516)
S	69.	Feeling very	sen-conscious wi	as shopping or at a	movie	0 1	2	3	4	(517)
S	7 0.	reening unea	isy in crowds, such	i as snopping or at a	1110 110					` .
S	71.	Feeling ever	whing is an effort.			.0 1	2	3	4	(518)
S	72.	Smalle of ter	ror or nanic			.0 1	2	3	4	(519)
S	73.	Egeling unce	omfortable about e	ating or drinking in p	ublic	.0 1	2	3	4	(520)
	73. 74.	Cotting into	fraguent argumen	te		.0 1	2	3	4	(521)
S S	74. 75.	Feeling net	ous when you are	tsleft alone		.0 1	2	3	4	(522)
3	13.									
S	7 6.	Others not g	giving you proper o	redit for your achiev	ements	.0 1	2	3	4	(523)
S	77.	Feeling lone	ly even when you	are with people		.0 1	2	3	4	(524)
S	78.	Feeling so to	estless vou couldn'	t sit still		.0 1	2	3	4	(525)
S	79.	Feelings of	worthlessness			.0 1	2	3	4	(526)
S	80.	The feeling	that something bac	l is going to happen t	o you	.0 1	2	3	4	(527)
c	81.	Shouting or	throwing things	4 4 4		.0 1	2	3	4	(528)
S S	81. 82.	Easling afrai	id you will faint in	public		.0 1	2	3	4	(529)
S	82. 83.	Feeling that	neonle will take a	dvantage of you if yo	u let them	.0 1	2	3	4	(530)
S	83. 84.	Having that	ights about sex tha	t bother you a lot		.0 1	2	3	4	(531)
S	85.	The idea tha	it you should be pu	inished for your sins	•••••	.0 1	2	3	4	(532)
c	8 6.	Thoughts ar	nd images of a friel	ntening nature		.0 1	2	3	4	(533)
S S	80. 87.	The idea tha	at something serior	is is wrong with your	boay	.0 1	2	3	4	(534)
S	87. 88.	Never feeling	a close to another	person		.0 1	2	3	4	(535)
_	89.	Ecolinas of	milt			.0 1	2	3	4	(536)
S S	90.	The idea tha	at something is wro	ong with your mind	•••••	.0 1	2	3	4	(537)
		_ , ,	1 4 . 4	or nightmares	* *	.0 1	2	3	4	(538)
S	91.	Repeated, u	npleasant dieallis	Ji iligiililiaicaand	traumatic	.0 1	2 2	3. 3	4	(539)
S	92. 93.	Avoiding co	etain things nlaces	very unpleasant and s, or activities becaus	e -		_		·	()
S	93.	they remi	nd you of something	ng unpleasant and tra	umatic	.0 1	2	3	4	(540)
	94.	Fooling byp	nu you or sometim			.0 1	2 2	3	4	(541)
S	94. 95.	Feeling hyp	tu tired			.0 1	2	3	4	(542)
S	95.	_								
S	96.	Less interes	ted in activities on	ce important to you.		.0 1	2	3	4	(543)
S	97.	Feeling deta	iched or estranged	from others		.0 1	2	3	4	(544)
S	98.	Less upset of	or angry about thin	gs which once cause	a			-	_	
-	•	vou to be	unset or angry			.0 1	2	3	. 4	(545)
S	9 9.	Trying to as	roid certain though	its and feelings becau	ise		_	_		1840
		they remi	nd you of somethin	ng unpleasant or trau	matic	.0 1	2	3	4	(546)

	NC	OT AT ALL	A LITTLE BIT	MODERATELY 2	QUITE A BIT	E	XTRI	EMEL 4	Υ		
S		an unplea	asant or traumatic e	nething reminds you event		0	1	2	3	4	(547)
S	101.	Less happy	or pleased about the	nings that once cause	ed	0	1	2	3	4	(548)
S	102	Drinking m	ore alcoholic bever	ages		0	1	2	3	4	(549)
S	103.	Feeling easi	ily startled			0	1	2	3	4	(550)

DNL

Listed below are a number of statements concerning personal attitudes and traits. Read each item and decide whether the statement is **True** or **False** as it pertains to you personally. Circle 1. True if the item describes you. Circle 2. False if the item does not describe you.

T 1. Before voting I thoroughly investigate the qualifications of all the candidates1. True	2. False	(551)
T 2. I never hesitate to go out of my way to help someone in trouble	2. False	(552)
T 3. It is sometimes hard for me to go on with my work if I am not encouraged	2. False	(553)
T 4. I have never intensely disliked anyone	2. False	(554)
T 5. On occasion I have had doubts about my ability to succeed in life	2. False	(555)
, , , , , , , , , , , , , , , , , , ,		
T 6. I sometimes feel resentful when I do not get my way	2. False	(556)
T 7 I am always careful about my manner of dress	2. False	(557)
T 8. My table manners at home are as good as when I eat out in a restaurant	2. False	(558)
T 9 If I could get into a movie without paying for it and be sure		
I was not seen, I would probably do it	2. False	(559)
T 10. On a few occasions, I have given up doing something because I thought		
too little of my ability	2. False	(560)
T 11. I like to gossip at times	2. False	(561)
T 12. There have been times when I felt like rebelling against people		
in authority even though I knew they were right	2. False	(562)
T 13. No matter who I'm talking to, I'm always a good listener	2. False	(563)
T 14. I can remember "playing sick" to get out of something	2. False	(564)
T 15. There have been occasions when I took advantage of someone	2. False	(565)
1 10, 110, 0		
T 16. I'm always willing to admit it when I make a mistake	2. False	(566)
T 17. I always try to practice what I preach	2. False	(567)
T 18. I don't find it particularly difficult to get along with loud-mouthed,		
obnexious people 1. True	2. Faise	(568)
T 19. I sometimes try to get even, rather than forgive and forget	2. False	(569)
T 20. When I don't know something I don't at all mind admitting it	2. False	(570)
T 21. I am always courteous, even to people who are disagreeable	2. False	(571)
T 22. At times I have really insisted on having things my own way	2. False	(572)
T 23. There have been occasions when I felt like smashing things	2. False	(573)
T 24. I would never think of letting someone else be punished for my wrongdoings	2 False	(574)
T 25. I never resent being asked to return a favor	2. False	(575)
2		
T 26. I have never been irked when people have expressed ideas very different	•	
from my own	2. False	(576)
T 27. I never make a long trip without checking the safety of my car	2. False	(577)
T 28. There have been times when I was quite jealous of the good fortune of others	2. False	(578)

T 29. I have almost never felt the urge to tell someone off	2. False	(579)
T 30. I am sometimes irritated by people who ask lavors of the	2. False	(581)
T 31. I have never felt that I was punished without cause		
T 31. I have never left that I was punished with the state of the stat	2. False	(582)
they deserved	2. False	(583)
T 33. I have never deliberately said something that nurt someone's recinings		

RLC

Indicate below the life events that have happened to you by marking an "X" in the appropriate column(s) to the right of each question below to indicate when the event occurred. You may have experienced some of these events over more than one of the time periods listed below. If so, mark ALL the appropriate columns. If the event has NOT happened to you during the time periods indicated leave all the columns blank. The column on the far right labeled "ADJUSTMENT SCORE" will be explained at the end of this section.

		1. Jan 1990 <i>to</i> Your Deployment	2. Your Deploy 15 Nov 1	ment <i>to</i> 990	Between 16 and No	Nov 19 DW	90	
FO 1	R TE	IE TIME PERIODS LISTED, E YOU EXPERIENCED:	1	1. Jan 90- Deployment	2. Deployment- 15 Nov	3. 16 Nov- NOW	ADJUS SCORE (1-100)	
L	1	Marriage?						(584-589)
L	2	Detention in jail or other in	stitution?	·······	_			(590-595)
L	3	Death of snouse?						(596-601)
L	4	Death of a close friend?		<u> </u>				(602-607)
L	5	Minor violation of the law	(traffic					(608-613)
_		tickets disturbing the ne	eace. etc.)?					(614-619)
L	6.	Outstanding personal achie	evement?					(620-625)
Ĺ	7	Pregnancy?						(020-023)
L	8.	Major change in the health	ofa					(626-631)
		family member?						(632-637)
L	9.	In-law troubles?						(032 031)
L	10.	Major change in financial s	state (increased					
		income, decreased incor	ne, credit rating					(638-643)
		difficulties)?	1 (41 h him					,
L	11.	Gaining a new family mem	ber (through on	ш,				(644-649)
		adoption, oldster movin	g in, etc. j?		- ; 			(650-655)
L	12.	Change in residence?						,
L	13.	Son or daughter leaving he	one (marriage,					(656-661)
		attending college, etc.)? Marital separation from m	ate9					(662-667)
L	14.	Marital reconciliation with	mate?					(668-673)
L	15.	Counseling for marital pro	hlems?					(674-679)
L	10.	Divorce?						(680-685)
L	1/.	Major change in jobs?						(686-691)
L	10.	Major change in responsib	ilities at work					
L	19.	(promotion, demotion, l	lateral transfer)?	-				(692-697)
T	20	Spouse beginning or ceasi	ng work outside	:				
L	20.	the home?						(698-703)
т	21	Major change in working	hours or					
L	۷1.	conditions?						(704-709)
		JOHGHOID						

FOR THE TIME PERIODS LISTED, HAVE YOU EXPERIENCED:	1. Jan 90- I Deployment	2. Seployment- 15 Nov	3. 16 Nov- NOW	ADJUST SCORE (1-100)	MENT	
L 22. Taking on a mortgage or loan greater \$10,000, ie purchasing a home, busi	iness?			,	(710-715)	
L 23. Taking on a mortgage or loan less that \$10,000 ie purchasing a car, TV, fre	ın				(716-721)	
L 24. Beginning or ceasing formal schooling L 25. An illness or injury which kept you in	<u>,</u> ?				(722-727)	•
bed a week or more, or took you to the hospital?)				(728-733)	
I. 26 Troubles at work?					(734-739)	
L 27. A change in the marital status of your parents (e.g. divorce, remarriage)?	· · · · · · · · · · · · · · · · · · ·				(740-745)	
L 28. Wife (or self) having a miscarriage or	an 				(746-751)	
abortion? L 29. A new, close, personal relationship?					(752-757) (758-763)	
L 30. An engagement to marry?L 31. A "falling out" of a close personal					(764-769)	
relationship? L 32. A loss or damage of personal property	V				(770-775)	
greater than \$1,000?					(776-781) (782-787)	
Persons adapt to their recent life chant to a residential move, for example, to be enor necessary. You are now requested to "score" "X" as to the amount of adjustment you need Your scores can range from 1 to 100 residential move but felt it required very little and place it in the blank to the right of the tine changed residence and felt it required a near toward 100, in the blank to the right of that can adjustment scores you would choose intermed Please return to the previous page and choose your personal life change ADJUSTME saw to be the amount of life adjustment ne estimated intensity of the life change and its control of the life change are life.	"each of the receded to handle the "points." If, for a life adjustment, ne period blanks. maximal life adjuguestion's time period blanks. The content of the	ers find very ent life change event. example, you you would o On the oth stment, you riod blanks. tween 1 and life change een 1 and 1 with or hand at your sco	ges that ou experi choose a der hand, would p For int 1 100. you indi 00). The le the express. L IN TH	ienced a low nur if you replace a hermedia cated wins should rent. Us	recent mber ecently igh number, te life th an "X," d reflect what you e both your UMN LABELED	
"ADJUSTMENT SCOI	RE" FOR EACH	EVENIY	OU MA	RRED	wiin X .	(788
PLEASE USE THE BACK OF THIS PAGE.						789-791

(789-791B)

VII. APPENDIX B: SUPPLEMENTARY TABLES

Table B.1: Distribution of occupation by sex. Comfort survey respondents, time 1.

Occupation Sex				
Frequency Percent Row Pct Col Pct	male	female	¦ Total	
corpsmen	90 37.50 78.95 68.18	24 10.00 21.05 22.22	114 47.50	
docs	14 5.83 73.68 10.61	2.08 26.32 4.63	19 7.92	
nurses	15 6.25 18.07 11.36	68 28.33 81.93 62.96	83 34.58	
others	13 5.42 54.17 9.85	11 4.58 45.83 10.19	24 10.00	
Total	132 55.00	108 45.00	240 100.00	

STATISTICS FOR TABLE OF Occupation BY Sex

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	3 3 1	74.832 79.528 46.948 0.558 0.488 0.558	0.000 0.000 0.000

Effective Sample Size = 240 Frequency Missing = 10

Table B.2: Distribution of age by sex. Comfort survey respondents, time 1.

Sex	Age (years)					
Frequency Percent Row Pct Col Pct		26-55	Total			
male	73 29.55 52.90 64.04	65 26.32 47.10 48.87	138 55.87			
female	41 16.60 37.61 35.96	68 27.53 62.39 51.13	109 44.13			
Total	114 46.15	133 53.85	247 100.00			

STATISTICS FOR TABLE OF Sex BY Age

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	5.724 5.759 5.126 5.701 0.012 0.021 0.152 0.150 0.152	0.017 0.016 0.024 0.017 0.994

Effective Sample Size = 247 Frequency Missing = 3

Table B.3: Distribution of race/ethnic background by sex. Comfort survey respondents, time 1.

Sex

Race/ Ethnic Background

Frequency Percent Row Pct Col Pct	; t l	black	oriental	hispanic	other	Total
male	100 41.15 74.07 52.08	17 7.00 12.59 62.96	7 2.88 5.19 87.50	11 4.53 8.15 78.57	0.00 0.00 0.00	135 55.56
female	92 37.86 85.19 47.92	10 4.12 9.26 37.04	1 0.41 0.93 12.50	3 1.23 2.78 21.43	2 0.82 1.85 100.00	108 44.44
Total	192 79.01	27 11.11	8 3.29	14 5.76	2 0.82	243 100.00

Frequency Missing = 7

STATISTICS FOR TABLE OF Sex BY Race

Statistic	DF	Value	Prob
Chi-Square	4	10.347	0.035
Likelihood Ratio Chi-Square	4	11.857	0.018
Mantel-Haenszel Chi-Square	1	3.382	0.066
Phi Coefficient		0.206	
Contingency Coefficient		0.202	
Cramer's V		0.206	

Effective Sample Size = 243

Frequency Missing = 7

WARNING: 40% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.4: Distribution of education by sex. Comfort survey respondents, time 1.

Education Sex Frequency Percent Row Pct less tha high sch some col bachelor other Col Pct Total n 12th |ool | lege | degree | 123 6 47 21 41 ¦ 8 ! male 53.25 9.09 2.60 20.35 17.75 3.46 17.07 4.88 38.21 33.33 6.50 23.08 77.05 27.63 68.33 ¦ 100.00 | 108 20 55 14 | 19 ¦ 0 ! female 8.66 46.75 23.81 6.06 8.23 0.00 50.93 18.52 12.96 17.59 0.00 72.37 76.92 31.67 22.95 0.00 26 231 76 61 60 Total 25.97 26.41 32.90 11.26 100.00

Frequency Missing = 19

3.46

STATISTICS FOR TABLE OF Sex BY Education

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	4 4 1	55.930 60.935 41.052 0.492 0.442	0.000 0.000 0.000

Effective Sample Size = 231 Frequency Missing = 19

Table B.5: Distribution of Marital status by sex. Comfort survey respondents, time 1.

Sex

Marital Status

Frequency Percent Row Pct Col Pct	 	single + sig oth	married only onc	sep/div + not r	div+ rem ar/sig o	other	Total
male	67 27.13 48.55 50.00	3 1.21 2.17 33.33	53 21.46 38.41 70.67	6 2.43 4.35 60.00	6 2.43 4.35 40.00	3 1.21 2.17 75.00	138 55.87
female	67 27.13 61.47 50.00	6 2.43 5.50 66.67	22 8.91 20.18 29.33	4 1.62 3.67 40.00	9 3.64 8.26 60.00	1 0.40 0.92 25.00	109 44.13
Total	134 54.25	9 3.64	75 30.36	10 4.05	15 6.07	1.62	247 100.00

Frequency Missing = 3

STATISTICS FOR TABLE OF Sex BY Marital Status

12.582 12.866 2.235 0.226 0.220	0.028 0.025 0.135
	12.866 2.235 0.226 0.220

Effective Sample Size = 247

Frequency Missing = 3

WARNING: 33% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.6: Distribution of parental status by sex. Comfort survey respondents, time 1.

Sex Have Child Frequency Percent Row Pct Col Pct		no	Total
male	55 22.18 39.86 68.75	83 33.47 60.14 49.40	138 55.65
female	25 10.08 22.73 31.25	85 34.27 77.27 50.60	110 44.35
Total	80 32.26	168 67.74	248 100.00

STATISTICS FOR TABLE OF Sex BY Have Children

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	8.217 8.385 7.452 8.184 2.96E-03 0.182 0.179 0.182	0.004 0.004 0.006 0.004 0.999

Effective Sample Size = 248 Frequency Missing = 2

Table B.7: Distribution of number of children by sex. Comfort survey respondents, time 1.

Sex Frequency Percent		Number of	Childrer	n	
Row Pct Col Pct	1	2	3	4	Total
male	27 33.33 49.09 67.50	21 25.93 38.18 70.00	5 6.17 9.09 55.56	2 2.47 3.64 100.00	55 67.90
female	13 16.05 50.00 32.50	9 11.11 34.62 30.00	4 4.94 15.38 44.44	0.00 0.00 0.00	26 32.10
Total	40 49.38	30 37.04	9 11.11	2 2.47	81 100.00

STATISTICS FOR TABLE OF Sex BY Number of Children

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	3 3 1	1.638 2.209 0.010 0.142 0.141	0.651 0.530 0.918

Effective Sample Size = 81 Frequency Missing = 169

WARNING: 68% of the data are missing.

WARNING: 38% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.8: Distribution of experience working with Desert Shield casualties by sex. Comfort survey respondents, time 1.

Sex	Work of Desert Sl	with hield Casu	alty
Frequency Percent Row Pct Col Pct	yes	no	Total
male	110 45.08 81.48 60.11	25 10.25 18.52 40.98	135 55.33
female	73 29.92 66.97 39.89	36 14.75 33.03 59.02	109 44.67
Total	183 75.00	61 25.00	244 100.00

STATISTICS FOR TABLE OF Sex BY Work w Desert Shield Casualty

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1	6.771 6.751 6.019 6.743 7.14E-03 0.011 0.167 0.164 0.167	0.009 0.009 0.014 0.009 0.997

Effective Sample Size = 244 Frequency Missing = 6

Table B.9: Distribution of prior sea duty by sex. Comfort survey respondents, time 1.

Frequency Percent Row Pct Col Pct		a Duty no	Total
	+		+
male	38	99	137
	15.38	40.08	55.47
	27.74	72.26	
	86.36	48.77] -
female	! 6	104	† 110
	2.43	42.11	44.53
	5.45	94.55	i I
	13.64	51.23	i !
motal	+ 44	203	247
Total	17.81	82.19	100.00
	1/.01	02.19	100.00

STATISTICS FOR TABLE OF Sex BY Prior Sea Duty

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1	20.692 23.112 19.198 20.608 2.11E-06 3.40E-06 0.289 0.278 0.289	0.000 0.000 0.000 0.000 1.000

Effective Sample Size = 247 Frequency Missing = 3

Table B.10: Distribution of prior isolated duty by sex. Comfort survey respondents, time 1.

Sex Frequency Percent		olated Dut	-y
Row Pct Col Pct	yes	no	Total
male	22 8.94 16.06 70.97	115 46.75 83.94 53.49	137 55.69
female	9 3.66 8.26 29.03	100 40.65 91.74 46.51	109 44.31
Total	31 12.60	215 87.40	246 100.00

STATISTICS FOR TABLE OF Sex BY Prior Isolated Duty

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1 1	3.355 3.477 2.684 3.341 0.049 0.082 0.117 0.116 0.117	0.067 0.062 0.101 0.068 0.980

Effective Sample Size = 246 Frequency Missing = 4

Table B.11: Distribution of prior experience in the Middle East by sex. Comfort survey respondents, time 1.

Sex		xperience Mid East	
Frequency Percent Row Pct Col Pct	yes	no	Total
male	10 4.05 7.30 71.43	127 51.42 92.70 54.51	137 55.47
female	4 1.62 3.64 28.57	106 42.91 96.36 45.49	110 44.53
Total	14 5.67	233 94.33	247 100.00

STATISTICS FOR TABLE OF Sex BY Prior Experience in the Mid East

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	1.531 1.595 0.923 1.525 0.169 0.274 0.079 0.078 0.079	0.216 0.207 0.337 0.217 0.938

Effective Sample Size = 247 Frequency Missing = 3

Table B.12: Distribution of Experience participating in mass casualty or disasters by sex. Comfort survey respondents, time 1.

Sex	Partici Mass Ca Disaste		
Frequency Percent Row Pct Col Pct	yes	no	Total
male	51 20.73 37.50 65.38	85 34.55 62.50 50.60	136 55.28
female	27 10.98 24.55 34.62	83 33.74 75.45 49.40	110 44.72
Total	78 31.71	168 68.29	246 100.00

STATISTICS FOR TABLE OF Sex BY Participation

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1 1	4.713 4.776 4.134 4.694 0.021 0.038 0.138 0.137 0.138	0.030 0.029 0.042 0.030 0.990

Effective Sample Size = 246 Frequency Missing = 4

Table B.13: Distribution of Experience working with dead bodies by sex. Comfort survey respondents, time 1.

Sex	Worked Dead Bo		
Frequency Percent Row Pct Col Pct		no	Total
male	99 39.76 71.74 54.70	39 15.66 28.26 57.35	138 55.42
female	82 32.93 73.87 45.30	29 11.65 26.13 42.65	111 44.58
Total	181 72.69	68 27.31	249 100.00

STATISTICS FOR TABLE OF Sex BY Work w Dead Bodies

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1 1	0.141 0.142 0.054 0.141 0.697 0.775 -0.024 0.024	0.707 0.707 0.816 0.708 0.409

Effective Sample Size = 249
Frequency Missing = 1

Table B.14: Distribution of Experience of patient death by sex. Comfort survey respondents, time 1.

Sex Frequency Percent Row Pct		a Patient	: Die
Col Pct	yes	no	Total
male	91 36.55 65.94 51.12	47 18.88 34.06 66.20	138 55.42
female	87 34.94 78.38 48.88	24 9.64 21.62 33.80	111 44.58
Total	178 71.49	71 28.51	249 100.00

STATISTICS FOR TABLE OF Sex BY Ever Had a Patient Die

DF	Value	Prob
1 1 1 1	4.668 4.743 4.078 4.649 0.990 0.035 -0.137 0.136	0.031 0.029 0.043 0.031 0.021
	1 1 1	1 4.668 1 4.743 1 4.078 1 4.649 0.990 0.035 -0.137 0.136

Effective Sample Size = 249 Frequency Missing = 1

Table B.15: Distribution of FMSS Operational Readiness Training by sex. Comfort survey respondents, time 1.

Sex Frequency Percent		rational s Training	ı
Row Pct Col Pct	yes	no	Total
male	28 13.40 24.56 90.32	86 41.15 75.44 48.31	114 54.55
female	3 1.44 3.16 9.68	92 44.02 96.84 51.69	95 45.45
Total	31 14.83	178 85.17	209 100.00

STATISTICS FOR TABLE OF Sex BY FMSS Operational Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	18.792 21.736 17.135 18.702 5.34E-06 7.86E-06 0.300 0.287	0.000 0.000 0.000 0.000 1.000
Cramer's V		0.300	

Effective Sample Size = 209

Frequency Missing = 41 WARNING: 16% of the data are missing.

Table B.16: Distribution of ACLS Operational Readiness Training by sex. Comfort survey respondents, time 1.

Sex Frequency Percent Row Pct Col Pct		rational s Training	Total
male	43 19.37 36.44 45.26	75 33.78 63.56 59.06	118 53.15
female	52 23.42 50.00 54.74	52 23.42 50.00 40.94	104 46.85
Total	95 42.79	127 57.21	222 100.00

STATISTICS FOR TABLE OF Sex BY ACLS Operational Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	4.152 4.159 3.616 4.133 0.985 0.057 -0.137 0.135 -0.137	0.042 0.041 0.057 0.042 0.029

Effective Sample Size = 222

Frequency Missing = 28
WARNING: 11% of the data are missing.

Table B.17: Distribution of ATLS Operational Readiness Training by sex. Comfort survey respondents, time 1.

Sex	ATLS Operational Readiness Tng			
Frequency Percent Row Pct Col Pct	yes	no	Total	
		+	-	
male	28	! 85	113	
	13.21	40.09	53.30	
	24.78	75.22		
	46.67	55.92	i !	
female	32	+	† 99	
	15.09	31.60	46.70	
	32.32	67.68	!	
	53.33	44.08	i !	
	+	157	212	
Total	60	152		
	28.30	71.70	100.00	

STATISTICS FOR TABLE OF Sex BY ATLS ORT

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	1.480 1.478 1.132 1.473 0.915 0.285 -0.084 0.083	0.224 0.224 0.287 0.225 0.144
Cramer's V		-0.084	

Effective Sample Size = 212
Frequency Missing = 38
WARNING: 15% of the data are missing.

Table B.18: Distribution of C4 Operational Readiness Training by sex. Comfort survey respondents, time 1.

Sex Frequency Percent Row Pct		tional s Training	ſ
Col Pct	yes	no	Total
male	34 16.27 30.36 62.96	78 37.32 69.64 50.32	112 53.59
female	20 9.57 20.62 37.04	77 36.84 79.38 49.68	97 46.41
Total	54 25.84	155 74.16	209 100.00

STATISTICS FOR TABLE OF Sex BY C4 Oper Read Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1 1	2.573 2.600 2.090 2.560 0.074 0.116 0.111 0.110	0.109 0.107 0.148 0.110 0.962

Effective Sample Size = 209

Frequency Missing = 41 WARNING: 16% of the data are missing.

Table B.19: Distribution of Damage Control Operational Readiness Training by sex. Comfort survey respondents, time 1.

Sex Frequency Percent	Damage (Operation Training	ness	
Row Pct Col Pct	yes	no	Total
male	71 32.72 59.17 71.72	49 22.58 40.83 41.53	120 55.30
female	28 12.90 28.87 28.28	69 31.80 71.13 58.47	97 44.70
Total	99 45.62	118 54.38	217 100.00

STATISTICS FOR TABLE OF Sex BY Damage Control OR Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1 1	19.852 20.277 18.649 19.760 6.52E-06 1.02E-05 0.302 0.290 0.302	0.000 0.000 0.000 0.000 1.000

Effective Sample Size = 217

Frequency Missing = 33
WARNING: 13% of the data are missing.

Table B.20: Distribution of shipboard orientation by sex. Comfort survey respondents, time 1.

Sex	Shipboard Orientation Operational Readiness			
Frequency Percent Row Pct Col Pct		no	Total	
male	106 45.69 84.80 55.21	19 8.19 15.20 47.50	125 53.88	
female	86 37.07 80.37 44.79	21 9.05 19.63 52.50	107 46.12	
Total	192 82.76	40 17.24	232 100.00	

Frequency Missing = 18

STATISTICS FOR TABLE OF Sex BY Shipboard Orientation

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1 1	0.792 0.789 0.512 0.788 0.237 0.389 0.058 0.058	0.374 0.374 0.474 0.375 0.856

Effective Sample Size = 232 Frequency Missing = 18

Table B.21: Distribution of MMART Team experience readiness training by sex. Comfort survey respondents, time 1.

Sex Frequency Percent	Operation	am Experie nal Readin	
Row Pct Col Pct	yes	no	Total
male	17 8.42 15.74 80.95	91 45.05 84.26 50.28	108 53.47
female	4 1.98 4.26 19.05	90 44.55 95.74 49.72	94 46.53
Total	21 10.40	181 89.60	202 100.00

STATISTICS FOR TABLE OF Sex BY MMART Team

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	_	7.117 7.696 5.937 7.082 .14E-03 .88E-03 0.188 0.184 0.188	0.008 0.006 0.015 0.008 0.999
Contingency Coefficient Cramer's V			

Effective Sample Size = 202

Frequency Missing = 48
WARNING: 19% of the data are missing.

Table B.22: Distribution of RADMUF Operational readiness training by sex. Comfort survey respondents, time 1.

Sex Frequency Percent Row Pct Col Pct		MUF nal Readir	ness Tng Total
male	7 3.40 6.36 36.84	103 50.00 93.64 55.08	110 53.40
female	12 5.83 12.50 63.16	84 40.78 87.50 44.92	96 46.60
Total	19 9.22	187 90.78	206 100.00

Frequency Missing = 44

STATISTICS FOR TABLE OF Sex BY RADMUF Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	2.305 2.313 1.631 2.294 0.961 0.152 -0.106 0.105 -0.106	0.129 0.128 0.202 0.130 0.101

Effective Sample Size = 206

Frequency Missing = 44
WARNING: 18% of the data are missing.

Table B.23: Distribution of MEDSTAR Operational readiness training by sex. Comfort survey respondents, time 1.

Sex Frequency Percent Row Pct	Readines	Operationa s Training	
Col Pct	yes	no	Total
male	8 3.96 7.34 88.89	101 50.00 92.66 52.33	109 53.96
female	1 0.50 1.08 11.11	92 45.54 98.92 47.67	93 46.04
Total	9 4.46	193 95.54	202 100.00

STATISTICS FOR TABLE OF Sex BY MEDSTAR Operational Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	4.626 5.349 3.271 4.603 0.031 0.040 0.151 0.150 0.151	0.031 0.021 0.071 0.032 0.997

Effective Sample Size = 202

Frequency Missing = 48
WARNING: 19% of the data are missing.

50% of the cells have expected counts less WARNING: than 5. Chi-Square may not be a valid test.

Table B.24: Distribution of IDT Operational Readiness-Training by sex. Comfort survey respondents, time 1.

Sex	IDT Operational Readiness Training			
Frequency Percent Row Pct Col Pct	yes	no	Total	
	! 5	102	107	
male	2.50 4.67 100.00	51.00 95.33 52.31	53.50	
female	! 0	! 93	93	
Temale	0.00 0.00 0.00	46.50 100.00 47.69	46.50	
Total	5 2.50	195 97.50	200 100.00	

STATISTICS FOR TABLE OF Sex BY IDT Operational Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1	4.457 6.366 2.746 4.435 0.042 0.062 0.149 0.148 0.149	0.035 0.012 0.097 0.035 1.000

Effective Sample Size = 200

Frequency Missing = 50

WARNING: 20% of the data are missing.

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.25: Distribution of hours of sleep by sex. Comfort survey respondents, time 1.

Sex	Hours o	f Sleep		
Frequency Percent Row Pct Col Pct	3-5 hrs	6-9 hrs	10-12 hr s	Total
male	27 11.34 20.77 60.00	96 40.34 73.85 53.04	7 2.94 5.38 58.33	130 54.62
female	18 7.56 16.67 40.00	85 35.71 78.70 46.96	2.10 4.63 41.67	108 45.38
Total	45 18.91	181 76.05	12 5.04	238 100.00

STATISTICS FOR TABLE OF Sex BY Hours of Sleep

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	0.775 0.779 0.299 0.057 0.057	0.679 0.677 0.585

Effective Sample Size = 238 Frequency Missing = 12 Table B.26: Distribution of self-reported weight status by sex. Comfort survey respondents, time 1.

Sex Frequency Percent		oorted We	ight Statu	s
Row Pct Col Pct	gained w	lost wt	stayed s	Total
male	41 17.45 32.03 55.41	40 17.02 31.25 55.56	47 20.00 36.72 52.81	128 54.47
female	33 14.04 30.84 44.59	32 13.62 29.91 44.44	42 17.87 39.25 47.19	107 45.53
Total	+ 74 31.49	72 30.64	89 37.87	235 100.00

Frequency Missing = 15

STATISTICS FOR TABLE OF Sex BY WEIGHTT1

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	0.159 0.159 0.117 0.026 0.026	0.923 0.923 0.733

Effective Sample Size = 235 Frequency Missing = 15

Table B.27: Distribution of those receiving an annual physical on board by sex. Comfort survey respondents, time 1.

Sex	Annual Physical on Board				
Frequency Percent Row Pct Col Pct		no	Total		
male	4 1.67 3.05 33.33	127 53.14 96.95 55.95	131 54.81		
female	8 3.35 7.41 66.67	100 41.84 92.59 44.05	108 45.19		
Total	12 5.02	227 94.98	239 100.00		

STATISTICS FOR TABLE OF Sex BY Annual Physical on Board

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	2.353 2.361 1.529 2.343 0.967 0.146 -0.099 0.099	0.125 0.124 0.216 0.126 0.108

Effective Sample Size = 239 Frequency Missing = 11 Table B.28: Distribution of those requiring care for physical problems by sex. Comfort survey respondents, time 1.

Sex Frequency Percent Row Pct		Physical	
Col Pct	yes	no 	Total
male	69	67	136
marc	28.05	27.24	55.28
	50.74	49.26	į
	49.29	63.21	†
female	71	39	110
	28.86	15.85	44.72
	64.55	35.45	!
	50.71	36.79	! ! !
Total	140	106	246
	56.91	43.09	100.00

Frequency Missing = 4

STATISTICS FOR TABLE OF Sex BY Medical Tng for Physical

Problems Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	4.730 4.760 4.183 4.710 0.990 0.038 -0.139 0.137 -0.139	0.030 0.029 0.041 0.030 0.020

Effective Sample Size = 246 Frequency Missing = 4

Table B.29: Distribution of those treated for emotional problems by sex. Comfort survey respondents, time 1.

Sex		Medical for al Proble	
Frequency Percent Row Pct Col Pct		no	Total
male	6 2.52 4.58 35.29	125 52.52 95.42 56.56	131 55.04
female	11 4.62 10.28 64.71	96 40.34 89.72 43.44	107 44.96
Total	17 7.14	221 92.86	238 100.00

STATISTICS FOR TABLE OF Sex BY Care for Emotional Problems

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right)	1 1 1 1	2.885 2.885 2.090 2.873	0.089 0.089 0.148 0.090 0.074
(2-Tail) Phi Coefficient Contingency Coefficient Cramer's V		0.128 -0.110 0.109 -0.110	

Effective Sample Size = 238 Frequency Missing = 12

Table B.30: Distribution of those needing but not seeking medical care on board. Comfort survey respondents, time 1.

Sex	Medical (d But	
Frequency Percent Row Pct Col Pct		no	Total
male	14 6.03 10.69 50.00	117 50.43 89.31 57.35	131 56.47
female	14 6.03 13.86 50.00	87 37.50 86.14 42.65	101 43.53
Total	28 12.07	204 87.93	232 100.00

Frequency Missing = 18

STATISTICS FOR TABLE OF Sex BY No Care Obtained

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient	1 1 1 1	0.542 0.538 0.284 0.539 0.826 0.543	0.462 0.463 0.594 0.463 0.296
Contingency Coefficient Cramer's V		0.048 -0.048	

Effective Sample Size = 232 Frequency Missing = 18

Table B.31: Distribution of age by sex. Comfort survey respondents - corpsmen only, time 1.

Sex Age						
Frequency Percent Row Pct Col Pct	18-25	26-55 me d splt	Total			
male	65 57.02 72.22 82.28	25 21.93 27.78 71.43	90 78.95			
female	14 12.28 58.33 17.72	10 8.77 41.67 28.57	24 21.05			
Total	79 69.30	35 30.70	114 100.00			

STATISTICS FOR TABLE OF Sex BY Age

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	1.718 1.653 1.127 1.703	0.190 0.199 0.288 0.192 0.938 0.145 0.217
Cramer's V		0.123	

Table B.32: Distribution of race/ethnic background by sex. Comfort survey respondents - corpsmen only, time 1.

Sex		Race/E	thnic Bac	ground	,	
Frequency Percent Row Pct Col Pct	i : :	black	oriental	hispanic	other	Total
male	61 54.46 69.32 77.22	14 12.50 15.91 82.35	5 4.46 5.68 83.33	8 7.14 9.09 88.89	0.00 0.00 0.00	88 78.57
female	18 16.07 75.00 22.78	3 2.68 12.50 17.65	1 0.89 4.17 16.67	1 0.89 4.17 11.11	1 0.89 4.17 100.00	24 21.43
Total	+ 79	17	6	9	. 1	112

5.36

8.04

100.00

0.89

Frequency Missing = 2

Total

79

70.54

STATISTICS FOR TABLE OF Sex BY Race/Ethnic Background

17

15.18

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	4 4 1	4.547 4.063 0.041 0.201 0.198 0.201	0.337 0.397 0.840

Effective Sample Size = 112

Frequency Missing = 2

WARNING: 60% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.33: Distribution of education by sex. Comfort survey respondents - corpsmen only, time 1.

Sex		Education	on			
Frequency Percent Row Pct Col Pct	less tha	high sch	some col lege	bachelor degree	other	Total
male	8 7.08 8.99 100.00	37 32.74 41.57 72.55	39 34.51 43.82 88.64	2 1.77 2.25 40.00	3 2.65 3.37 60.00	89 78.76
female	0.00 0.00 0.00	14 12.39 58.33 27.45	5 4.42 20.83 11.36	3 2.65 12.50 60.00	1.77 8.33 40.00	24 21.24
Total	+ 8 7.08	51 45.13	44 38.94	5 4.42	5 4.42	113 100.00

STATISTICS FOR TABLE OF Sex BY Education

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	4 4 1	11.442 12.304 1.153 0.318 0.303 0.318	0.022 0.015 0.283

Effective Sample Size = 113

Frequency Missing = 1

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.34: Distribution of Marital status by sex. Comfort survey respondents - corpsmen only, time 1.

Sex

Marital Status

Frequency Percent Row Pct Col Pct		single +	married only onc	sep/div + not r	div+ rem ar/sig o	other	Total
male	58 51.33 64.44 79.45	1.77 2.22 50.00	22 19.47 24.44 84.62	3 2.65 3.33 60.00	1.77 2.22 100.00	3 2.65 3.33 100.00	90 79.65
female	15 13.27 65.22 20.55	2 1.77 8.70 50.00	4 3.54 17.39 15.38	2 1.77 8.70 40.00	0 0.00 0.00 0.00	0.00 0.00 0.00	23 20.35
Total	73 64.60	4 3.54	26 23.01	5 4.42	2 1.77	3 2.65	113 100.00

Frequency Missing = 1

STATISTICS FOR TABLE OF Sex BY Marital Status

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	5 5 1	5.035 5.437 0.330 0.211 0.207 0.211	0.412 0.365 0.566

Effective Sample Size = 113

Frequency Missing = 1

WARNING: 67% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.35: Distribution of parental status by sex. Comfort survey respondents - corpsmen only, time 1.

Sex		Children	
Frequency Percent Row Pct Col Pct	yes	¦no	¦ Total
male	23	67	90
	20.35	59.29	79.65
	25.56	74.44	!
	82.14	78.82	 -
female	5	18	23
	4.42	15.93	20.35
	21.74	78.26)
	17.86	21.18	<u> </u>
Total	28	85	113
	24.78	75.22	100.00

STATISTICS FOR TABLE OF Sex BY Have Children

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient	1 1 1 1	0.143 0.146 0.012 0.142	0.705 0.702 0.914 0.706 0.736 0.468 0.793
Contingency Coefficient Cramer's V		0.036 0.036	

Effective Sample Size = 113 Frequency Missing = 1 Table B.36: Distribution of number of children by sex. Comfort survey respondents - corpsmen only, time 1.

Sex Frequency	Number	of Child	cen	
Percent Row Pct Col Pct	1¦	2	3	Total
male	16 55.17 69.57 80.00	6 20.69 26.09 75.00	1 3.45 4.35 100.00	23 79.31
female	4 13.79 66.67 20.00	2 6.90 33.33 25.00	0.00 0.00 0.00	20.69
Total	20 68.97	8 27.59	1 3.45	29 100.00

Frequency Missing = 85

STATISTICS FOR TABLE OF Sex BY Number of Children

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	0.357 0.556 0.003 0.111 0.110	0.836 0.757 0.954

Effective Sample Size = 29

Frequency Missing = 85

WARNING: 75% of the data are missing.

WARNING: 67% of the cells have expected counts less

than 5. Chi-Square may not be a valid test.

Table B.37: Distribution of experience working with Desert Shield casualties by sex. Comfort survey respondents - corpsmen only, time 1.

Sex Frequency Percent Row Pct	Work with Desert Shield Casualty					
-	yes	no	Total			
male	69 62.16 78.41 83.13	19 17.12 21.59 67.86	88 79.28			
female	14 12.61 60.87 16.87	8.11 39.13 32.14	23 20.72			
Total	83 74.77	28 25.23	111 100.00			

STATISTICS FOR TABLE OF Sex BY Worked w Desert Shield Casualty

Statistic)F	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	2.974 2.780 2.117 2.947 0.164 0.162 0.164	0.085 0.095 0.146 0.086 0.974 0.076 0.107

Effective Sample Size = 111 Frequency Missing = 3

Table B.38: Distribution of prior sea duty by sex. Comfort survey respondents - corpsmen only, time 1.

Sex Frequency Percent Row Pct	Prior Sea	a Duty	
	yes	no	Total
male	17 14.91 18.89 80.95	73 64.04 81.11 78.49	90 78.95
female	4 3.51 16.67 19.05	20 17.54 83.33 21.51	24 21.05
Total	21 18.42	93 81.58	114 100.00

STATISTICS FOR TABLE OF Sex BY Prior Sea Duty

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	0.062 0.063 0.000 0.062 0.023 0.023 0.023	0.803 0.801 1.000 0.804 0.697 0.533 1.000

Sample Size = 114

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.39: Distribution of prior isolated duty by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	Prior Iso	olated Dut	У
Frequency Percent Row Pct Col Pct		no	Total
male	5 4.39 5.56 55.56	85 74.56 94.44 80.95	90 78.95
female	3.51 16.67 44.44	20 17.54 83.33 19.05	24 21.05
Total	9 7.89	105 92.11	114 100.00

STATISTICS FOR TABLE OF Sex BY Prior Isolated Duty

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	3.217 2.724 1.870 3.189 -0.168 0.166 -0.168	0.073 0.099 0.171 0.074 0.091 0.981 0.091
Cramer's v			

Sample Size = 114

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.40: Distribution of prior experience in the Middle East by sex. Comfort survey respondents - corpsmen only, time 1.

Sex Frequency Percent	Prior Exp		
Row Pct Col Pct	yes	no	Total
male	3 2.63 3.33 60.00	87 76.32 96.67 79.82	90 78.95
female	2 1.75 8.33 40.00	22 19.30 91.67 20.18	24 21.05
Total	5 4.39	109 95.61	114 100.00

STATISTICS FOR TABLE OF Sex BY Prior Experience in the Mid East

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1 1	1.130 · 0.971 0.252 1.120 -0.100 0.099 -0.100	0.288 0.324 0.616 0.290 0.283 0.938 0.283

Sample Size = 114

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.41: Distribution of Experience participating in mass casualty or disasters by sex. Comfort survey respondents - corpsmen only, time 1.

Sex Frequency Percent Row Pct	Participated in Mass Casualty/ Disasters				
Col Pct	yes	no	Total		
male	26 22.81 28.89 83.87	64 56.14 71.11 77.11	90 78.95		
female	5 4.39 20.83 16.13	19 16.67 79.17 22.89	24 21.05		
Total	31 27.19	83 72.81	114 100.00		

STATISTICS FOR TABLE OF Sex BY Participation

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient	1 1 1 1	0.621 0.647 0.281 0.616	0.431 0.421 0.596 0.433 0.853 0.305 0.606
Contingency Coefficient Cramer's V		0.074 0.074	

Table B.42: Distribution of Experience working with dead bodies by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	Worked with Dead Bodies				
Frequency Percent Row Pct Col Pct	yes	no	Total		
male	56 49.12 62.22 87.50	34 29.82 37.78 68.00	90 78.95		
female	8 7.02 33.33 12.50	16 14.04 66.67 32.00	24 21.05		
Total	64 56.14	50 43.86	114 100.00		

STATISTICS FOR TABLE OF Sex BY Worked w Dead Bodies

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1 1	6.422 6.427 5.302 6.366	0.011 0.011 0.021 0.012 0.997 0.011 0.019
Phi Coefficient Contingency Coefficient Cramer's V		0.237 0.231 0.237	

Table B.43: Distribution of Experience of patient death by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	Ever Had	a Patient	Die
Frequency Percent Row Pct Col Pct		no	Total
male	51 44.74 56.67 80.95	39 34.21 43.33 76.47	90 78.95
female	12 10.53 50.00 19.05	12 10.53 50.00 23.53	24 21.05
Total	63 55.26	51 44.74	114 100.00

STATISTICS FOR TABLE OF Sex BY Ever Had a Patient Die

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	0.341 0.339 0.124 0.338 0.055 0.055	0.559 0.560 0.724 0.561 0.793 0.361 0.646

Table B.44: Distribution of FMSS Operational Readiness Training by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	FMSS Operational Readiness Training			
Frequency Percent Row Pct Col Pct		!no ¦	Total	
COI PCC	, yes	 	 -	
male	18 18.56 23.38 90.00	59 60.82 76.62 76.62	77 79.38	
female	2 2.06 10.00 10.00	18 18.56 90.00 23.38	20 20.62	
Total	20 20.62	77 79.38	97 100.00	

STATISTICS FOR TABLE OF Sex BY FMSS Operational Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	1.736 1.972 1.015 1.718 0.134 0.133 0.134	0.188 0.160 0.314 0.190 0.957 0.157 0.231

Effective Sample Size = 97

Frequency Missing = 17

WARNING: 15% of the data are missing.

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.45: Distribution of ACLS Operational Readiness Training by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	ACLS Operational Readiness Training			
Frequency Percent Row Pct Col Pct		no	Total	
male	18 18.56 23.68 69.23	58 59.79 76.32 81.69	76 78.35	
female	8 8.25 38.10 30.77	13 13.40 61.90 18.31	21 21.65	
Total	26 26.80	71 73.20	97 100.00	

STATISTICS FOR TABLE OF Sex BY ACLS Operational Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	1.742 1.655 1.085 1.724	0.187 0.198 0.298 0.189 0.149 0.942 0.265
Phi Coefficient Contingency Coefficient Cramer's V		-0.134 0.133 -0.134	·

Effective Sample Size = 97

Frequency Missing = 17
WARNING: 15% of the data are missing.

Table B.46: Distribution of ATLS Operational Readiness Training by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	ATLS Operational Readiness Tng				
Frequency Percent Row Pct Col Pct		no	Total		
male	9 9.57 12.16 64.29	65 69.15 87.84 81.25	74 78.72		
female	5 5.32 25.00 35.71	15 15.96 75.00 18.75	20 21.28		
Total	14 14.89	80 85.11	94 100.00		

STATISTICS FOR TABLE OF Sex BY ATLS ORT

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	2.047 · 1.847 1.160 2.025	0.152 0.174 0.282 0.155 0.141 0.957 0.168
Cramer's V		-0.148	

Effective Sample Size = 94

Frequency Missing = 20

WARNING: 18% of the data are missing.

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.47: Distribution of C4 Operational Readiness Training by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	C4 Operational Readiness Tng				
Frequency Percent Row Pct Col Pct	yes	no	Total		
male	15 16.13 20.55 78.95	58 62.37 79.45 78.38	73 78.49		
female	4 4.30 20.00 21.05	16 17.20 80.00 21.62	20 21.51		
Total	19 20.43	74 79.57	93 100.00		

STATISTICS FOR TABLE OF Sex BY C4 Oper Read Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right)	1 1 1 1	0.003 0.003 0.000 0.000	0.957 0.957 1.000 0.957 0.630 0.615
(2-Tail) Phi Coefficient Contingency Coefficient Cramer's V		0.006 0.006 0.006	1.000

Effective Sample Size = 93 Frequency Missing = 21

WARNING: 18% of the data are missing.
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.48: Distribution of Damage Control Operational Readiness Training by sex. Comfort survey respondents - corpsmen only, time 1.

Frequency Percent Row Pct Col Pct	Training	nal Readi	ness Total
male	45 45.00 56.25 90.00	35 35.00 43.75 70.00	80 80.00
female	5 5.00 25.00 10.00	15 15.00 75.00 30.00	20.00
Total	50 50.00	50 50.00	100 100.00

STATISTICS FOR TABLE OF Sex BY Damage Control OR Tng

Statistic	DF	Value .	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	6.250 6.486 5.063 6.187 0.250 0.243 0.250	0.012 0.011 0.024 0.013 0.997 0.011 0.023
Cramer's V			

Effective Sample Size = 100

Frequency Missing = 14

WARNING: 12% of the data are missing.

Table B.49: Distribution of shipboard orientation by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	Shipboard Orientation Operational Readiness			
Frequency Percent Row Pct				
Col Pct	yes 	no +	Total	
male	70 66.04 84.34 78.65	13 12.26 15.66 76.47	83 78.30	
female	19 17.92 82.61 21.35	3.77 17.39 23.53	23 21.70	
Total	89 83.96	17 16.04	106 100.00	

STATISTICS FOR TABLE OF Sex BY Shipboard Orientation

Statistic	DF	Value	Prob
Chi-Square	1	0.040	0.842
Likelihood Ratio Chi-Square	1	0.039	0.843
Continuity Adj. Chi-Square	1	0.000	1.000
Mantel-Haenszel Chi-Square	1	0.040	0.842
Fisher's Exact Test (Left)			0.709
(Right)			0.531
(2-Tail)			1.000
Phi Coefficient		0.019	
Contingency Coefficient		0.019	
Cramer's V		0.019	i

Effective Sample Size = 106

Frequency Missing = 8

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.50: Distribution of MMART Team experience readiness training by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	MMART Team Experience Operational Readiness Tng				
Frequency Percent Row Pct Col Pct	yes	no	Total		
male	9 9.68 12.16 90.00	65 69.89 87.84 78.31	74 79.57		
female	1 1.08 5.26 10.00	18 19.35 94.74 21.69	19 20.43		
Total	10 10.75	83 89.25	93 100.00		

STATISTICS FOR TABLE OF Sex BY MMART Team

Statistic	DF 	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	0.750 0.868 0.203 0.742 0.090 0.089 0.090	0.387 0.352 0.652 0.389 0.911 0.349 0.681

Effective Sample Size = 93

Frequency Missing = 21

WARNING: 18% of the data are missing. WARNING: 25% of the cells have expected 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.51: Distribution of RADMUF Operational readiness training by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	RADMUF Operational Readiness Tng				
Frequency Percent Row Pct Col Pct	yes	¦no ¦	Total		
male	2 2.13 2.67 50.00	73 77.66 97.33 81.11	75 79.79		
female	2 2.13 10.53 50.00	17 18.09 89.47 18.89	19 20.21		
Total	4 4.26	90 95.74	94 100.00		

STATISTICS FOR TABLE OF Sex BY RADMUF Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	2.299 1.853 0.774 2.274	0.129 0.173 0.379 0.132 0.181 0.975 0.181
Cramer's V		-0.156	

Effective Sample Size = 94

Frequency Missing = 20

WARNING: 18% of the data are missing.

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.52: Distribution of MEDSTAR Operational readiness training by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	MEDSTAR Operational Readiness Training				
Frequency Percent Row Pct Col Pct	yes	no	Total		
male	2 2.15 2.70 100.00	72 77.42 97.30 79.12	74 79.57		
female	0 0.00 0.00 0.00	19 20.43 100.00 20.88	19 20.43		
Total	2.15	91 97.85	. 93 100.00		

STATISTICS FOR TABLE OF Sex BY MEDSTAR Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	0.525 0.925 0.000 0.519 0.075 0.075	0.469 0.336 1.000 0.471 1.000 0.631 1.000

Effective Sample Size = 93

Frequency Missing = 21

WARNING: 18% of the data are missing.

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.53: Distribution of IDT Operational Readiness
Training by sex. Comfort survey respondents- corpsmen only, time 1.

Sex Frequency Percent	IDT Operational Readiness Training				
Row Pct Col Pct	yes	¦no	Total		
male	4.30 5.41 100.00	70 75.27 94.59 78.65	74 79.57		
female	0 0.00 0.00 0.00	19 20.43 100.00 21.35	19 20.43		
Total	4.30	89 95.70	93 100.00		

STATISTICS FOR TABLE OF Sex BY IDT ORT

Statistic	DF	Value	Prob
Chi-Square	1	1.073	0.300
Likelihood Ratio Chi-Square	1	1.874	0.171
Continuity Adj. Chi-Square	1	0.162	0.688
Mantel-Haenszel Chi-Square	1	1.062	0.303
Fisher's Exact Test (Left)			1.000
(Right)			0.394
(2-Tail)			0.578
Phi Coefficient		0.107	
Contingency Coefficient		0.107	
Cramer's V		0.107	

Effective Sample Size = 93

Frequency Missing = 21

WARNING: 18% of the data are missing.

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.54: Distribution of hours of sleep by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	Но	urs of Slo	eep	
Frequency Percent Row Pct Col Pct		6-9 hrs	10-12 hr s	Total
male	16 15.24 19.28 64.00	60 57.14 72.29 83.33	7 6.67 8.43 87.50	83 79.05
female	9 8.57 40.91 36.00	12 11.43 54.55 16.67	1 0.95 4.55 12.50	22 20.95
Total	25 23.81	72 68.57	8 7.62	105 100.00

STATISTICS FOR TABLE OF Sex BY Hours of Sleep

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	4.561 4.218 3.894 0.208 0.204 0.208	0.102 0.121 0.048

Effective Sample Size = 105 Frequency Missing = 9

Table B.55: Distribution of self-reported weight status by sex. Comfort survey respondents - corpsmen only, time 1.

Frequency Percent Row Pct Col Pct			ght Status stayed s ame	Total
male	32 29.91 38.10 84.21	25 23.36 29.76 71.43	27 25.23 32.14 79.41	84 78.50
female	6 5.61 26.09 15.79	10 9.35 43.48 28.57	7 6.54 30.43 20.59	23 21.50
Total	38 35.51	35 32.71	34 31.78	107 100.00

STATISTICS FOR TABLE OF Sex BY Self-Reported Weight Status

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	1.788 1.774 0.283 0.129 0.128 0.129	0.409 0.412 0.595

Effective Sample Size = 107 Frequency Missing = 7 Table B.56: Distribution of those receiving an annual physical on board by sex. Comfort survey respondents - corpsmen only, time 1.

Sex	Annual Physical on Board			
Frequency Percent Row Pct Col Pct	yes	no	Total	
	1	! 85	86	
male	0.91	77.27	78.18	
	1.16	98.84		
	20.00	80.95		
female	! 4	! 20 !	24	
Temare	3.64	18.18	21.82	
	16.67	83.33		
	80.00	19.05		
Total	+ 5	105	. 110	
10041	4.55	95.45	100.00	

Frequency Missing = 4

STATISTICS FOR TABLE OF Sex BY Annual Physical on Board

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	10.395 8.156 7.129 10.300 -0.307 0.294 -0.307	0.001 0.004 0.008 0.001 7.81E-03 1.000 7.81E-03

Effective Sample Size = 110

Frequency Missing = 4

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.57: Distribution of those requiring care for physical problems by sex. Comfort survey respondents - corpsmen only, time 1.

Sex Frequency Percent Row Pct		Physical	
	yes	no 	¦ Total
male	45	43	88
	40.18	38.39	78.57
	51.14	48.86	i I
	73.77	84.31	 -
female	16	. 8	24
	14.29	7.14	21.43
	66.67	33.33	i !
	26.23	15.69	
Total	61	51	112
	54.46	45.54	100.00

STATISTICS FOR TABLE OF Sex BY Medical Tx for Physical Problems

	ET.	ODICMO	
Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	1.834 1.870 1.261 1.818	0.176 0.171 0.261 0.178 0.130 0.945 0.248
Cramer's V		-0.128	

Effective Sample Size = 112 Frequency Missing = 2

Table B.58: Distribution of those treated for emotional problems by sex. Comfort survey respondents - corpsmen only, time 1.

Sex		Medical C nal Proble	
Frequency Percent Row Pct Col Pct		no ¦	Total
male	6 5.45 6.98 66.67	80 72.73 93.02 79.21	86 78.18
female	3 2.73 12.50 33.33	21 19.09 87.50 20.79	24 21.82
Total	9 8.18	101 91.82	110 100.00

STATISTICS FOR TABLE OF Sex BY Care for Emotional Problems

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	0.762 0.694 0.204 0.755	0.383 0.405 0.651 0.385 0.307 0.898 0.406
Phi Coefficient Contingency Coefficient Cramer's V		-0.083 0.083 -0.083	

Effective Sample Size = 110

Frequency Missing = 4
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test. Table B.59: Distribution of those needing but not seeking medical care on board. Comfort survey respondents - corpsmen only, time 1.

Sex		Care Neede Obtained	ed But
Frequency Percent Row Pct Col Pct	yes	no	Total
male	8 7.48 9.30 72.73	78 72.90 90.70 81.25	86 80.37
female	3 2.80 14.29 27.27	18 16.82 85.71 18.75	21 19.63
Total	11 10.28	96 89.72	107 100.00

Frequency Missing = 7

STATISTICS FOR TABLE OF Sex BY No Care Obtained

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	0.454 0.422 0.075 0.450	0.500 0.516 0.785 0.502 0.369 0.858 0.448
Phi Coefficient Contingency Coefficient Cramer's V		-0.065 0.065 -0.065	

Effective Sample Size = 107

Frequency Missing = 7

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.60: Distribution of age by sex. Comfort survey respondents - nurses only, time 1.

Sex		ears)	
Frequency Percent Row Pct Col Pct		26-55 me d splt	Total
male	1 1.23 6.67 4.17	14 17.28 93.33 24.56	15 18.52
female	23 28.40 34.85 95.83	43 53.09 65.15 75.44	66 81.48
Total	24 29.63	57 70.37	81 100.00

Frequency Missing = 2

STATISTICS FOR TABLE OF Sex BY Age (in years)

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	4.656 5.760 3.402 4.598	0.031 0.016 0.065 0.032 0.025 0.997 0.032
Phi Coefficient Contingency Coefficient Cramer's V		-0.240 0.233 -0.240	

Effective Sample Size = 81

Frequency Missing = 2

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.61: Distribution of race/ethnic background by sex. Comfort survey respondents - nurses only, time 1.

Sex Race/Ethnic background Frequency Percent Row Pct Col Pct | white | black | hispanic other Total 0 ¦ 15 1 | male 11 ! 0.00 3.75 1.25 18.75 13.75 0.00 6.67 20.00 73.33 0.00 75.00 15.94 16.67 5 ! 1 | 1 ! 65 58 ! female 81.25 1.25 6.25 1.25 72.50 | 1.54 1.54 89.23 7.69 83.33 | 25.00 100.00 84.06 1 80 6 4 69 Total 100.00 7.50 5.00 1.25 86.25

Frequency Missing = 3

STATISTICS FOR TABLE OF Sex BY Race/Ethnic background

ic DF Value Prob
are 3 8.913 0.030 ood Ratio Chi-Square 3 6.765 0.080 Haenszel Chi-Square 1 4.307 0.038 fficient 0.334 ency Coefficient 0.317
s V 0.334

Effective Sample Size = 80

Frequency Missing = 3

WARNING: 75% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.62: Distribution of education by sex. Comfort survey respondents - nurses only, time 1.

Sex Education Frequency Percent Row Pct |bachelor|other some Col Pct Total college | degree | 1 | 15 12 | 2 | male 1.20 | 18.07 14.46 2.41 6.67 80.00 13.33 7.14 19.67 25.00 68 13 49 ! 6 female 81.93 15.66 59.04 7.23 19.12 72.06 8.82 92.86 80.33 75.00 83 14 61 8 Total 100.00 16.87 73.49 9.64

STATISTICS FOR TABLE OF Sex BY Education

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	1.494 1.740 1.344 0.134 0.133	0.474 0.419 0.246

Sample Size = 83

33% of the cells have expected counts less WARNING: than 5. Chi-Square may not be a valid test.

Table B.63: Distribution of Marital status by sex. Comfort survey respondents - nurses only, time 1.

Sex

Marital Status

Frequency Percent Row Pct Col Pct	[single +	married only onc	sep/div + not r	div+ rem ar/sig o 	Total
male	3 3.66 20.00 6.67	0.00 0.00 0.00	9 10.98 60.00 36.00	1 1.22 6.67 50.00	2 2.44 13.33 25.00	15 18.29
female	42 51.22 62.69 93.33	2 2.44 2.99 100.00	16 19.51 23.88 64.00	1 1.22 1.49 50.00	7.32 8.96 75.00	67 81.71
Total	45 54.88	2 2.44	25 30.49	2 2.44	8 9.76	82 100.00

Frequency Missing = 1

STATISTICS FOR TABLE OF Sex BY Marital Status

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	4 4 1	11.348 11.547 6.961 0.372 0.349 0.372	0.023 0.021 0.008

Effective Sample Size = 82

Frequency Missing = 1

WARNING: 60% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.64: Distribution of parental status by sex. Comfort survey respondents - nurses only, time 1.

Sex	Have Cl	nildren	
Frequency Percent Row Pct Col Pct		no	Total
male	9 10.84 60.00 36.00	7.23 40.00 10.34	15 18.07
female	16 19.28 23.53 64.00	52 62.65 76.47 89.66	68 81.93
Total	25 30.12	58 69.88	. 83 100.00

STATISTICS FOR TABLE OF Sex BY Have Children

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	7.766 7.181 6.130 7.672 0.306 0.293 0.306	0.005 0.007 0.013 0.006 0.999 8.20E-03 0.011

Sample Size = 83

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.65: Distribution of number of children by sex. Comfort survey respondents - nurses only, time 1.

Sex	Numbe	er of Chil	ldren	
Frequency Percent Row Pct Col Pct	1	2	3	Total
male	3 12.00 33.33 27.27	5 20.00 55.56 50.00	1 4.00 11.11 25.00	9 36.00
female	8 32.00 50.00 72.73	5 20.00 31.25 50.00	3 12.00 18.75 75.00	16 64.00
Total	11 44.00	10 40.00	16.00	25 100.00

STATISTICS FOR TABLE OF Sex BY Number of Children

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	1.424 1.418 0.086 0.239 0.232 0.239	0.491 0.492 0.769

Effective Sample Size = 25

Frequency Missing = 58

WARNING: 70% of the data are missing.

WARNING: 67% of the cells have expected counts less

than 5. Chi-Square may not be a valid test.

Table B.66: Distribution of experience working with Desert Shield casualties by sex. Comfort survey respondents - nurses only, time 1.

Sex	Work of Desert Si	with hield Casu	alty
Frequency Percent Row Pct Col Pct	yes	no	Total
male	13 15.85 86.67 20.63	2 2.44 13.33 10.53	15 18.29
female	50 60.98 74.63 79.37	17 20.73 25.37 89.47	67 81.71
Total	63 76.83	19 23.17	82 100.00

Frequency Missing = 1

STATISTICS FOR TABLE OF Sex BY Worked w Desert Shield Casualty

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1 1	0.998 1.101 0.436 0.986 0.110 0.110	0.318 0.294 0.509 0.321 0.916 0.263 0.501

Effective Sample Size = 82

Frequency Missing = 1

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.67: Distribution of prior sea duty by sex. Comfort survey respondents - nurses only, time 1.

Sex	Prior Se	ea Duty	
Frequency Percent Row Pct Col Pct		no	Total
male	5 6.10 33.33 100.00	10 12.20 66.67 12.99	15 18.29
female	0.00 0.00 0.00	67 81.71 100.00 87.01	67 81.71
Total	5 6.10	77 93.90	82 100.00

STATISTICS FOR TABLE OF Sex BY Prior Sea Duty

Statistic DF Va	
Likelihood Ratio Chi-Square 1 18. Continuity Adj. Chi-Square 1 18. Mantel-Haenszel Chi-Square 1 23. Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient 0. Contingency Coefficient 0.	784 0.000 566 0.000 318 0.000 1.000 1.10E-04 1.10E-04 539 474

Effective Sample Size = 82

Frequency Missing = 1

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.68: Distribution of prior isolated duty by sex. Comfort survey respondents - nurses only, time 1.

Sex	Prior Is	olated Dut	У
Frequency Percent Row Pct Col Pct	yes	no	Total
male	3 3.70 20.00 42.86	12 14.81 80.00 16.22	15 18.52
female	4 4.94 6.06 57.14	62 76.54 93.94 83.78	66 81.48
Total	7 8.64	74 91.36	81 100.00

STATISTICS FOR TABLE OF Sex BY Prior Isolated Duty

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	3.008 2.465 1.502 2.971	0.083 0.116 0.220 0.085 0.980 0.114 0.114
Phi Coefficient Contingency Coefficient Cramer's V		0.193 0.189 0.193	

Effective Sample Size = 81

Frequency Missing = 2

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.69: Distribution of prior experience in the Middle East by sex. Comfort survey respondents - nurses only, time 1.

Sex	Prior Experience	
	in the Mid East	

Frequency Percent Row Pct Col Pct		no	Total
male	2 2.44 13.33 50.00	13 15.85 86.67 16.67	15 18.29
female	2.44	65 79.27 97.01	67 81.71
Total	50.00 4 4.88	83.33 + 78 95.12	82 100.00

STATISTICS FOR TABLE OF Sex BY Prior Experience in Mid East

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square	1	2.829 2.199	0.093 0.138
Continuity Adj. Chi-Square	1	1.038	0.308
Mantel-Haenszel Chi-Square	1	2.794	0.095
Fisher's Exact Test (Left)			0.982
(Right)			0.151
(2-Tail)			0.151
Phi Coefficient		0.186	1
Contingency Coefficient		0.183	
Cramer's V		0.186	

Effective Sample Size = 82

Frequency Missing = 1

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.70: Distribution of Experience participating in mass casualty or disasters by sex. Comfort survey respondents - nurses only, time 1.

Sex Frequency Percent Row Pct Col Pct	Partici Mass Ca Disaste yes	Total	
male	9 10.98 60.00 36.00	7.32 40.00 10.53	15 18.29
female	16 19.51 23.88 64.00	51 62.20 76.12 89.47	67 81.71
Total	25 30.49	57 69.51	82 100.00

STATISTICS FOR TABLE OF Sex BY Participation

Statistic	DF	Value .	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1 1	7.545 7.000 5.937 7.453	0.006 0.008 0.015 0.006 0.998 9.00E-03 0.011
Phi Coefficient Contingency Coefficient Cramer's V		0.303 0.290 0.303	•

Effective Sample Size = 82

Frequency Missing = 1

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.71: Distribution of Experience working with dead bodies by sex. Comfort survey respondents - nurses only, time 1.

Sex	Worked with Dead Bodies			
Frequency Percent Row Pct Col Pct	yes	no	Total	
male	15 18.07 100.00 19.74	0.00 0.00 0.00	15 18.07	
female	61 73.49 89.71 80.26	7 8.43 10.29 100.00	68 81.93	
Total	76 91.57	7 8.43	83 100.00	

STATISTICS FOR TABLE OF Sex BY Worked w Dead Bodies

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	1.686 2.930 0.617 1.666	0.194 0.087 0.432 0.197 1.000 0.233 0.341
Cramer's V		0.143	

Sample Size = 83

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.72: Distribution of Experience of patient death by sex. Comfort survey respondents - nurses only, time 1.

Sex Frequency Percent Row Pct Col Pct		a Petient	Die Total
male	15 18.07 100.00 19.48	0.00 0.00 0.00	15 18.07
female	62 74.70 91.18 80.52	7.23 8.82 100.00	68 81.93
Total	77 92.77	6 7.23	83 100.00

STATISTICS FOR TABLE OF Sex BY Ever Had a Petient Die

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	1.427 2.493 0.414 1.409 0.131 0.130 0.131	0.232 0.114 0.520 0.235 1.000 0.290 0.586
			:

Sample Size = 83

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.73: Distribution of FMSS Operational Readiness Training by sex. Comfort survey respondents - nurses only, time 1.

Sex Frequency Percent Row Pct	FMSS Ope Readines	I	
Col Pct	yes	no	Total
male	3 4.17 23.08 75.00	10 13.89 76.92 14.71	13 18.06
female	1 1.39 1.69 25.00	58 80.56 98.31 85.29	59 81.94
Total	4 5.56	68 94.44	72 100.00

STATISTICS FOR TABLE OF Sex BY FMSS Operational Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right)	1 1 1	9.282 6.713 5.654 9.153	0.002 0.010 0.017 0.002 0.999 0.017
(2-Tail) Phi Coefficient Contingency Coefficient Cramer's V		0.359 0.338 0.359	0.017

Effective Sample Size = 72

Frequency Missing = 11

WARNING: 13% of the data are missing.
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.74: Distribution of ACLS Operational Readiness Training by sex. Comfort survey respondents - nurses only, time 1.

Sex		rational s Training	
Frequency Percent Row Pct Col Pct		no	Total
male	7 8.86 53.85 15.91	6 7.59 46.15 17.14	13 16.46
female	37 46.84 56.06 84.09	29 36.71 43.94 82.86	66 83.54
Total	44 55.70	35 44.30	79 100.00

STATISTICS FOR TABLE OF Sex BY ACLS Operational Readiness Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient	1 1 1 1	0.022 0.022 0.000 0.021	0.883 0.883 1.000 0.884 0.560 0.676 1.000
Contingency Coefficient Cramer's V		0.017 -0.017	

Effective Sample Size = 79 Frequency Missing = 4 Table B.75: Distribution of ATLS Operational Readiness Training by sex. Comfort survey respondents - nurses only, time 1.

Sex	ATLS Operational Readiness Tng			
Frequency Percent Row Pct Col Pct		no	Total	
male	3 4.00 25.00 12.00	9 12.00 75.00 18.00	12 16.00	
female	22 29.33 34.92 88.00	41 54.67 65.08 82.00	63 84.00	
Total	25 33.33	50 66.67	75 100.00	

Frequency Missing = 8

STATISTICS FOR TABLE OF Sex BY ATLS ORT

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	0.446 0.465 0.112 0.440	0.504 0.495 0.738 0.507 0.379 0.842 0.740
Phi Coefficient Contingency Coefficient Cramer's V		-0.077 0.077 -0.077	1

Effective Sample Size = 75

Frequency Missing = 8

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.76: Distribution of C4 Operational Readiness Training by sex. Comfort survey respondents - nurses only, time 1.

Sex	C4 Operational Readiness Training			
Frequency Percent Row Pct Col Pct		no	Total	
male	2 2.74 16.67 15.38	10 13.70 83.33 16.67	12 16.44	
female	11 15.07 18.03 84.62	50 68.49 81.97 83.33	61 83.56	
Total	13 17.81	60 82.19	73 100.00	

STATISTICS FOR TABLE OF Sex BY C4 Oper Read Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient	1 1 1 1	0.013 0.013 0.000 0.013	0.910 0.909 1.000 0.911 0.638 0.682 1.000
Cramer's V		-0.613	•

Effective Sample Size = 73

Frequency Missing = 10
WARNING: 12% of the data are missing.
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.77: Distribution of Damage Control Operational Readiness Training by sex. Comfort survey respondents - nurses only, time 1.

Sex Frequency Percent Row Pct	Damage Control Operational Readiness Training				
Col Pct	yes	no	¦ Total		
male	9 12.33 69.23	5.48 30.77	13 17.81		
	33.33	8.70	[-		
female	18 24.66 30.00 66.67	42 57.53 70.00 91.30	60 82.19		
Total	27 36.99	46 63.01	73 100.00		

STATISTICS FOR TABLE OF Sex BY Damage Control OR Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left)	1 1 1	7.056 6.845 5.473 6.959	0.008 0.009 0.019 0.008 0.998
(Right) (2-Tail)			0.011
Phi Coefficient Contingency Coefficient Cramer's V		0.311 0.297 0.311	1

Effective Sample Size = 73 Frequency Missing = 10

WARNING: 12% of the data are missing.
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.78: Distribution of shipboard orientation by sex. Comfort survey respondents - nurses only, time 1.

Sex	Shipboard Orientation Operational Readiness			
Frequency Percent Row Pct Col Pct	yes	no	Total	
male	11 13.92 84.62 17.19	2 2.53 15.38 13.33	13 16.46	
female	53 67.09 80.30 82.81	13 16.46 19.70 86.67	66 83.54	
Total	64 81.01	15 18.99	79 100.00	

STATISTICS FOR TABLE OF Sex BY Shipboard Orientation

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	0.131 0.137 0.000 0.130 0.041 0.041 0.041	0.717 0.711 1.000 0.719 0.764 0.532 1.000

Effective Sample Size = 79

Frequency Missing = 4
WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.79: Distribution of MMART Team experience readiness training by sex. Comfort survey respondents - nurses only, time 1.

Sex	MMART Team Experience Operational Readiness Tng			
Frequency Percent Row Pct Col Pct	yes	no	Total	
male	1 1.41 9.09 25.00	10 14.08 90.91 14.93	11 15.49	
female	3 4.23 5.00 75.00	57 80.28 95.00 85.07	60 84.51	
Total	4 5.63	67 94.37	71 100.00	

STATISTICS FOR TABLE OF Sex BY MMART Team

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	0.293 0.258 0.000 0.289	0.589 0.612 1.000 0.591 0.889 0.498
Phi Coefficient Contingency Coefficient Cramer's V		0.064 0.064 0.064	

Effective Sample Size = 71 Frequency Missing = 12

WARNING: 14% of the data are missing.

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.80: Distribution of RADMUF Operational readiness training by sex. Comfort survey respondents - nurses only, time 1.

Sex

Frequency Percent Row Pct Col Pct	RADMUF Operational Readiness yes no Tot				
male	1 1.37 9.09 14.29	10 13.70 90.91 15.15	11 15.07		
female	8.22 9.68 85.71	56 76.71 90.32 84.85	62 84.93		
Total	7 9.59	66 90.41	73 100.00		

Frequency Missing = 10

STATISTICS FOR TABLE OF Sex BY RADMUF Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	0.004 0.004 0.000 0.004	0.951 0.951 1.000 0.952 0.717 0.698 1.000
Phi Coefficient Contingency Coefficient Cramer's V		-0.007 0.007 -0.007	

Effective Sample Size = 73

Frequency Missing = 10

WARNING: 12% of the data are missing.

WARNING: 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.81: Distribution of MEDSTAR Operational readiness training by sex. Comfort survey respondents - nurses only, time 1.

MEDSTAR Operational Readiness Training

Frequency Percent Row Pct Col Pct		no	Total
male	1 1.43 9.09 50.00	10 14.29 90.91 14.71	11 15.71
female	1 1.43 1.69 50.00	58 82.86 98.31 85.29	59 84.2 9
Total	2 2.86	68 97.14	70 100.00

Frequency Missing = 13

STATISTICS FOR TABLE OF Sex BY MEDSTAR Operational Tng

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail)	1 1 1	1.827 1.324 0.134 1.801	0.176 0.250 0.714 0.180 0.977 0.292 0.292
Phi Coefficient Contingency Coefficient Cramer's V		0.162 0.159 0.162	i

Effective Sample Size = 70

Frequency Missing = 13

WARNING: 16% of the data are missing.

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.82: Distribution of IDT Operational Readiness Training by sex. Comfort survey respondents. time 1.

Sex	IDT Opera	tional Training
Frequency Percent Row Pct Col Pct	no	Total
male	11 15.71 100.00 15.71	11 15.71
female	59 84.29 100.00 84.29	59 84.29
Total	70 100.00	70 100.00

Table B.83: Distribution of hours of sleep by sex. Comfort survey respondents - nurses only, time 1.

Sex		rs of Sle	ep	
Frequency Percent Row Pct Col Pct		6-9 hrs	10-12 hr s	Total
male	2 2.44 13.33 22.22	13 15.85 86.67 18.84	0.00 0.00 0.00	15 18.29
female	7 8.54 10.45 77.78	56 68.29 83.58 81.16	4.88 5.97 100.00	67 81.71
Total	9 10.98	69 84.15	4.88	82 100.00

STATISTICS FOR TABLE OF Sex BY Hours of Sleep

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	1.002 1.718 0.613 0.111 0.110	0.606 0.424 0.434

Effective Sample Size = 82

Frequency Missing = 1
WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.84: Distribution of self-reported weight status by sex. Comfort survey respondents - nurses only, time 1.

Sex Frequency	_	orted Weig	ght Status	;
Percent Row Pct Col Pct	gained w t	lost wt	stayed s ame	Total
male	7.50 46.15 20.00	1 1.25 7.69 6.67	7.50 46.15 17.14	13 16.25
female	24 30.00 35.82 80.00	14 17.50 20.90 93.33	29 36.25 43.28 82.86	67 83.75
Total	30 37.50	15 18.75	35 43.75	80 100.00

STATISTICS FOR TABLE OF Sex BY WEIGHTT1

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Mantel-Haenszel Chi-Square Phi Coefficient Contingency Coefficient Cramer's V	2 2 1	1.343 1.565 0.074 0.130 0.128 0.130	0.511 0.457 0.786

Effective Sample Size = 80

Frequency Missing = 3

WARNING: 33% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.85: Distribution of those receiving an annual physical on board by sex. Comfort survey respondents - nurses only, time 1.

Sex	Annual on B		
Frequency Percent Row Pct Col Pct	yes	no	Total
male	1 1.25 7.69 33.33	12 15.00 92.31 15.58	13 16.25
female	2 2.50 2.99 66.67	65 81.25 97.01 84.42	67 83.75
Total	3 3.75	77 96.25	80 100.00

Frequency Missing = 3

STATISTICS FOR TABLE OF Sex BY Annual Physical on Board

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right)	1 1 1 1	0.668 0.550 0.000 0.660	0.414 0.458 0.984 0.417 0.933 0.417
(2-Tail) Phi Coefficient Contingency Coefficient Cramer's V		0.091 0.091 0.091	0.417

Effective Sample Size = 80 Frequency Missing = 3

WARNING: 50% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

Table B.86: Distribution of those requiring care for physical problems by sex. Comfort survey respondents - nurses only, time 1.

Sex Frequency Percent		Physical	
Row Pct Col Pct	yes	no ¦	Total
male	9 10.84 60.00 16.36	7.23 40.00 21.43	15 18.07
female	46 55.42 67.65 83.64	22 26.51 32.35 78.57	68 81.93
Total	55 66.27	28 33.73	83 100.00

STATISTICS FOR TABLE OF Sex BY I		for Physical		
Statistic DF	Value	Prob		
Chi-Square 1 Likelihood Ratio Chi-Square 1 Continuity Adj. Chi-Square 1 Mantel-Haenszel Chi-Square 1 Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	0.321 0.315 0.070 0.318 -0.062 0.062 -0.062	0.571 0.575 0.791 0.573 0.388 0.809 0.562		

Sample Size = 83

Table B.87: Distribution of those treated for emotional problems by sex. Comfort survey respondents - nurses only, time 1.

Sex		Medical nal Probl	
Frequency Percent Row Pct Col Pct	yes	no	¦ Total
male	0.00 0.00 0.00	13 16.25 100.00 17.81	13 16.25
female	7 8.75 10.45 100.00	60 75.00 89.55 82.19	67 83.75
Total	7	73	+ 80

8.75

Frequency Missing = 3

STATISTICS FOR TABLE OF Sex BY Care for Emotional Problems

91.25 100.00

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square	1 1	1.488 2.610	0.222 0.106
Continuity Adj. Chi-Square	1	0.468	0.494
Mantel-Haenszel Chi-Square	1	1.470	0.225
Fisher's Exact Test (Left)			0.274
(Right)			1.000
(2-Tail)			0.592
Phi Coefficient		-0.136	
Contingency Coefficient		0.135	
Cramer's V		-0.136	

Effective Sample Size = 80

Frequency Missing = 3 WARNING: 25% of the contractions 25% of the cells have expected counts less than 5. Chi-Square may not be a valid test. Table B.88: Distribution of those needing but not seeking medical care on board. Comfort survey respondents - nurses only, time 1.

Sex	Medical Not	d But	
Frequency Percent Row Pct Col Pct	yes	no	Total
male	3 3.90 21.43 27.27	11 14.29 78.57 16.67	14 18.18
female	8 10.39 12.70 72.73	55 71.43 87.30 83.33	63 81.82
Total	11 14.29	66 85.71	77 100.00

Frequency Missing = 6

STATISTICS FOR TABLE OF Sex BY No Care Obtained

Statistic	DF	Value	Prob
Chi-Square Likelihood Ratio Chi-Square Continuity Adj. Chi-Square Mantel-Haenszel Chi-Square Fisher's Exact Test (Left) (Right) (2-Tail) Phi Coefficient Contingency Coefficient Cramer's V	1 1 1	0.713 0.652 0.178 0.704 0.096 0.096	0.398 0.419 0.673 0.402 0.893 0.318 0.410

Effective Sample Size = 77

Frequency Missing = 6 WARNING: 25% of the cells have expected counts less

than 5. Chi-Square may not be a valid test.

Table B.89: Means, standard errors and t-tests for differences between the sexes on social field stress. Comfort survey respondents, time 1.

Stress experienced by:

-	_	•	-
-	•		•

Sell						
Sex	N	Mean	Std Error	T	DF	Prob> T
male female	135 109	4.91851852 5.99082569	0.13751802 0.12603322	-5.7485	241.9	0.0001
Significa	ant Other					
Sex	N	Mean	Std Error	Т	DF	Prob> T
male female	133 107	6.72932331 6.57943925	0.09127325 0.12808519	0.9530	199.6	0.3418
Children						
Sex	N	Mean	Std Error	T	DF	Prob> T
male female	129 105	6.73643411 7.48571429	0.17419505 0.11884231	-3.5532	217.0	0.0005
Supervis	or		·			
Sex	N .	Mean	Std Error	T	DF	Prob> T
male female	130 108	4.73076923 5.71296296	0.16769099 0.17054213	-4.0778	236.0	.0001
Coworker						
Sex	N	Mean	, Std Error	T	DF	Prob> T
male female	131 108	4.78625954 5.67592593	0.15016438 0.16735512	-3.9613	237 .	0001

Table B.90: Means, standard errors, and t-tests for differences between the sexes on SCL-90 subscales. Comfort survey respondents. time 1.

SCL-90 Somatization

SCT-30 S	Omatization		1 T	т DF	Prob> T
Sex	N	Mean	Std Error	* ~~ 	
male female	123	0 42181818	0.04899577 0.05979842	8050 2211	0 .4194

SCL-90 Depression

SCT-30 De	pression			$_{\mathtt{T}}$ $_{\mathtt{DF}}$ $_{\mathtt{Prob}}$
Sex	N	Mean	std Error	_ ~-
male female	121 104	0.86167620 1.06354783	0.06385352 0.07979557	-1.9973 223.0 .0470

SCL-90 Anxiety

SCL-90 A	Myterl			т DF	Prob> T
Sex	N	Mean	std Error 0.05777934		
male female	121 104		0.05777934		

SCL-90 Hostility

SCL-90	Hoariirel		std Error	т	DF	Prob> T
Sex	N	Mean	0.07621035	1 1884	224.0	.2359
male female	121 105	0.83608815 0.70793651	0.07541032			

Table B.91: Means, standard errors and t-tests for differences between the sexes on perceived social support. Comfort survey respondents, time 1.

Perceived support from significant other

Sex	N	Mean	Std Error	T	DF	Prob> T
\mathtt{male}	97	17.69397721	0.43040206	1.3100	169.0	.1920
female	74	16.76813656	0.58022046			

Perceived support from friends

Sex	N	Mean	Std Error	T	 Prob> T
male female	129 106	14.72174623 16.85600794	0.37133029 -4 0.36517243		

Table B.92: Means, standard errors and t-tests for differences between the sexes on Comfort-specific stress perception. Comfort survey respondents, time 1.

Heat stress

Sex	N	Mean	Std Error	T D	-	cob> T
male female	136 111	5.02205882 5.15315315	0.14814279 0.16399906	5932	245.0	.5536

Separation from Family

Sex	N	Mean	Std Error	T DF	• •
male female	137 111	5.63503650 5.75675676	0.13222504 0.14090861	-0.6272	246.0 0.5311

Fear of Fire

Sex	N	Mean	Std Error	T DF		b> T
male female	131	2.56488550 3.10000000	0.13188156 0.16486656	-2.5647	239.0	0.0109

Fear of Terrorist Atack

Sex	N	Mean	Std Error	T DF		b> T	1
male female	133 111	2.83458647 3.49549550	0.13123511 0.16131822	-3.2115	242.0	0.0015	

Fear of Ship Sinking

Sex	N	Mean	std Error	_	 Prob> T
male female	133 111	2.37593985 3.01801802	0.12923240 -2.9 0.17122289		0.0031

Fear of Dying

Sex	N	Mean	Std Error	T DF	Pro	b> T	_
male female	133 111	2.90977444 3.52252252	0.14807131 0.18362393	2.02.	242.0	0.0092	•

Fear of Others' Deaths

Sex	N	Mean	Std Error	_	DF	Prob>¦T¦
male female	133 111	3.57894737 4.62162162	0.16369318 -4 0.17920292			

Fear of Combat Casualties

Sex	N	Mean	Std Error	T DI	
male female	136 111	3.66911765 4.67567568			244.9 0.0001

Fear of the Unknown

Sex	N	Mean	Std Error	T DF	o> T	
male female	136 111	4.45588235 5.63063063	0.18103661 0.16083725			

Table B.93: Means, standard errors and t-tests for differences between the sexes on helpfulness of stress reducers, Comfort survey respondents, time 1.

Helpfulness of:

GV	Ó	1
• , .	•	

Sex	N	Mean	Std Error	T		rob> T
male female	126 99	5.09523810 4.4444444	0.16307699 0.20866719	2.4940	223.0	0.0133

Movies

Sex	N	Mean	Std Error	-		Prob> T	
	133 103	4.62406015 3.76699029	0.13228175 4. 0.16740018	0724	234.	0 0.0001	

Eating

Sex	N	Mean	Std Error	T DF		b> T
male female	133 105	3.33834586 3.66666667	0.14155309 0.17046944	-1.4936	236.0	0.1366

Weather Decks

Sex	N	Mean	Std Error	T DF		b> T
male female	134 109	4.64179104 5.46788991	0.14732226 0.14312232	-3.9677	241.0	0.0001

Lounges

Sex	N	Mean	Std Error	T		Prob> T	
male female	133 106	3.66917293 3.49056604	0.15046136 0.16376373	0.800	5 237	7.0 0.4242	

Reading

Sex	N	Mean	std Error	-	DF	Prob> T	
male female	133 109	4.76691729 4.99082569	0.14552144 - 0.17069316	1.00	42 24	0.0 0.3163	(

Time Alone

Sex	N	Mean	Std Error	T	DF	Prob> T
male female	131 102	5.50381679 5.75490196	0.15792773 - 0.15290894	1.12	01 23	1.0 0.2638

Library

Sex	N	Mean	Std Error	_	DF	Prob> T
male	126	3.51587302	0.14853106 1.	4679	225.0	0.1435
female	101	3.18811881	0.16692494			

With Friend

Sex	N	Mean	Std Error			Prob>{T}
male	135	5.6444444	0.11871184	0.4155	242.0	0.6782
female	109	5.56880734	0.13939275			

Reading Mail

Sex	N	Mean	Std Error	T DF	•
male female	135 108	6.37037037 6.23148148			241.0 0.3853

Writing Mail

Sex	N	Mean	Std Error	_	DF	Prob> T
male female	133 108	5.66165414 5.20370370	0.13538264 0.14635248			

Table B.94: Means, standard errors and t-tests for differences between the sexes on Ways of Coping subscales, Comfort survey respondents, time 1.

Confrontive Coping

Sex	N	Mean	Std Error	-	DF	Prob> T
male female	118 104	1.09604520 0.94551282	0.05084343 0.05794674			

Distancing

Sex	N	Mean	Std Error	T DF	Prob> T
male female	118 100	1.27542373	0.04927473 0.04946941	1.3341 216.	0 0.1836

Self Control

Sex	N	Mean	Std Error	T D	_ , ,
male female	120 103	1.38809524 1.42024965	0.04981482 0.05124075	-0.4483	221.0 0.6544

Seeking Social Support

Sex	N	Mean	Std Error	_	DF	Prob> T
male female	119 103	1.29551821 1.38673139	0.04954480 0.0559135	-1.22	53 22	0.0 0.2218

Accepting Responsibility

Sex	N	Mean	std Error	T DF	Prob> T
male female	122 104	1.03893443 0.77403846	0.05739428 0.06929706	2.9696 224	4.0 0.0033

Escape Avoidance

Doug -							
Sex	N	Mean	Std Error	T	DF	Prob> T	
male female	117 104	1.06730769 1.13701923	0.05457488 - 0.05712306	0.88	17 21	9.0 0.3789	. (

Planful Problem Solving

Sex	N	Mean	Std Error	T DF Pro	b> T
male female	121 103	1.59779614 1.46925566	0.05181395 0.05710824	1.6692 222.0	0.0965
Positive	Reappraisal				
Sex	N	Mean	Std Error	T DF Pro	b> T
male female	119 99	1.42136855 1.48340548	0.05235082 0.06565778	-0.7479 216.0	0.4553

Table B.95: Least square means, t-tests and p-values for stressors by sex, occupation and sex by occupation interactions for nurses and all other respondents, Comfort study, time 1.

and all other	Losponia	•		_
Construct Su	ibgroup	Lsmeans	<u>T-test</u>	<u>P-value</u>
Sex Effects				
	Males Females	2.65244709 3.30637255	-2.70175	0.0074
Work demands M Factor I	Males Females	3.62830688 4.90736551	-4.87997	0.0001
11600 0000	Males Females	5.13690476 5.18495475	-0.15777	0.8748
	Males Females	5.88955026 5.67929864	0.785404	0.4330
Occupation Ef	fects			
111) UL)	Others Nurses	3.12268519 2.83613445	1.183908	0.2377
Work demands Factor	Others Nurses	4.37250712 4.16316527	0.798698	0.4253
Heat Stress	Others Nurses	5.15064103 5.17121849	-0.06757	7 0.9462
Separation from Family	Others Nurses	5.51317664 6.05567227	-2.0265	1 0.0439

Injury Factor

Sex	Occupation	n MINJSTS Lsmean	T i/		Lsmean(i	i)=Lsı 2	mean(j)	/ Pr > T 3 4
Male	Others	2.66203704	1	•		9613	-3.5442° 0.000	5 0.0895
Male	Nurses	2.64285714	2	-0.048	53 •		-2.1694	4 -0.94659

Female		3.58333333 3.02941176	4	0.9613 3.544267 0.0005 1.705536 0.0895	2.169441 0.0311 0.946595 0.3449	0.0311 • -1.98191 0.0487	0.3449 1.981914 0.0487	
Trauma-1	elated wo	rk demands Fa	ctor					
Sex	Occupation	n MWRKSTS Lsmean	т f i/j		mean(i)=Lsn 2	3	Pr > T 4	
Male	Others	4.01851852	1	•	1.823382 0.0696	0.0126	-4.58596 0.0001 -4.18377	
Male	Nurses	3.23809524	2	-1.82338 0.0696	•	-3.17051 0.0017	0.0001 -1.19521	
Female	Others	4.72649573	3	2.515106 0.0126	3.170514 0.0017	. 105205	0.2333	
Female	Nurses	5.08823529	4	4.585961 0.0001	4.183769 0.0001	1.195205	•	
Heat Stress Rear Occupation HEASTRT1 T for HO: Lsmean(i)=Lsmean(j) / Pr > T								
Sex	Occupation	n HEASTRT1 Lsmean	i/		2	3	4	
Male	Others	4.91666667	1	•	-0.8857 0.3767	-1.43071 0.1539	-0.25321 0.8003	
Male	Nurses	5.35714286	2	0.885698 0.3767	•	-0.05036 0.9599	0.723678 0.4700 1.135493	
Female	Others	5.38461538	3	1.430708 0.1539	0.9599	. 12540	0.2574	
Female	Nurses	4.98529412	4	0.253207 0.8003	-0.72368 0.4700	-1.13549 0.2574	•	
Separation from Family								
Sex	Occupati	on SFMSTRT1 Lsmean		for HO: L	smean(i)=L 2	smean(j) / 3		
Male	Others	5.56481481	1	•	-1.48571 0.1388	0.7198	0.1645	
Male	Nurses	6.21428571	2	1.485713 0.1388	3	1.569951 0.1178		
Female	Others	5.46153846	3	-0.35922 0.7198			0.1602	

0.4832

1.408905

0.1602

-0.70236

0.1645

1.394587

5.89705882

Female Nurses

Table B.96: Least square means, t-test, and p-values for stress reducers by sex, occupation, and sex by occupation interactions for nurses and all other respondents, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test P-value
Sex Effects			
Gym	Males Females	5.09239130 4.6744444	1.11062 0.2682
Movies	Males Females	4.60869565 3.87148148	2.333608 0.0207
Eating	Males Females	3.75543478 3.70666667	0.145811 0.8842
Weather Decks	Males Females	4.90217391 5.30407407	-1.27821 0.2028
Lounges	Males Females	3.58333333 3.44814815	0.396638 0.6921
Reading	Males Females	4.51449275 4.91037037	-1.16236 0.2467
Time Alone	Males Females	5.82246377 5.68629630	0.416766 0.6774
Library	Males Females	3.54347826 3.21333333	1.045917 0.2970
With Friends	Males Females	5.59420290 5.5211111	0.276481 0.7825
Reading Mail	Males Females	6.54347826 6.03333333	2.203989 0.0288
Writing Mail	Males Females	5.64855072 5.25259259	1.336234 0.1832
Occupation			
Gуm	Others Nurses	5.03683575 4.73000000	0.815362 0.4160
Movies	Others Nurses	4.34017713 4.14000000	0.633649 0.5271
Eating	Others Nurses	3.29710145 4.16500000	-2.59492 0.0103
Weather Decks	Others Nurses		-1.60214 0.1109

Lounges	Others Nurses	3.52314815 3.50833333	0.043467	0.9654
Reading	Others Nurses	4.71819646 4.70666667	0.033853	0.9730
Time Alone	Others Nurses	5.53542673 5.97333333	-1.3403	0.1819
Library	Others Nurses	3.62681159 3.13000000	1.573927	0.1173
With Friends	Others Nurses	5.49698068 5.61833333	-0.45904	0.6468
Reading Mail	Others Nurses	6.00181159 6.57500000	-2.47636	0.0142
Writing Mail	Others Nurses	5.40780998 5.49333333	-0.28861	0.7732

Gym

Sex	Occupation	n GYMSTRT1 Lsmean	T 1		Lsmean(i)= 1	=Lsmean(j) / 2 3	Pr > T 4
Male	Others	5.18478261	1	•	0.31108		2.131524 0.0344
Male	Nurses	5.00000000	2	-0.311 0.75		0.16548 0.8688	0.868003 0.3866
Female	Others	4.8888889	3	-0.698			0.927928 0.354 7
Female	Nurses	4.46000000	4	-2.131 0.03	52 -0.8		•
Movies							
Sex	Occupation	n MOVSTRT1 Lsmean	T i/		Lsmean(i)	=Lsmean(j) / 2 3	Pr > T 4
Male	Others	4.71739130	1	•	0.4359 0.66		
Male	Nurses	4.50000000	2	-0.435 0.66		0.952756 0.3420	
Female	Others	3.96296296	3	-2.121 0.03	57 -0. 952		0.471544 0.6378
Female	Nurses	3.78000000	4	-3.283 0.00	92 -1.378		

Eating

Sex	Occupation	n EATSTRT1 Lsmean	T i/		mean(i)=Ls 2	mean(j) / 3	Pr > T 4
Male	Others	3.26086957	1	•	-1.87361 0.0626	-0.19248 0.8476	-2.71048 0.0074
Male	Nurses	4.25000000	2	1.873612	•	1.536066	0.307459 0.7589
Female	Others	3.3333333	3	0.0626 0.192478	-1.53607	•	-1.81763 0.0708
Female	Nurses	4.08000000	4	0.8476 2.710478	0.1263 -0.30746	1.817634	•
remare	Narbob			0.0074	0.7589	0.0708	
	D lo -						
Weather	Decks			_			Pr > T
Sex	Occupatio	n WDSTRT1 Lsmean	T i/		smean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Others	4.55434783	1	•	-1.40167 0.1628	-1.67776 0.0952	-3.18774 0.0017
	37	5.25000000	. 2	1.401675	0.1628	0.18155	-0.404
Male	Nurses	5.2500000	. 2	0.1628		0.8561	0.6867
Female	Others	5.14814815	3	1.677761	-0.18155 0.8561	•	-0.80753 0.4204
	**	5.46000000	4	0.0952 3.187744	0.404005	0.807527	•
Female	Nurses	5.46000000	7	0.0017	0.6867	0.4204	
Lounges		n LNGSTRT1	Ψ	for HO: Ls	smean(i)=Ls	smean(j) /	Pr > T
Sex	Occupatio	Lsmean	i/		2	3	4
Male	Others	3.75000000	1	•	0.619605 0.5363	1.182614	0.487074
Male	Nurses	3.41666667	2	-0.61961	•	0.197938	-0.32538 0.7453
Female	Others	3.29629630	3	0.5363 -1.18261	-0.19794	•	-0.7255
		3.60000000	4	0.2385 -0.48707	0.8433 0.325379	0.725505	0.4691
Female	Nurses	3.60000000	7	0.6268	0.7453	0.4691	
Reading	ſ						
_		n REASTRT1	- Tr	for HO: La	smean(i)=Ls	smean(j) /	Pr > T
Sex	Occupation	Lsmean	i,	_		3	4
Male	Others	4.69565217	1	•	0.673971	-0.11761 0.9065	-1.24894 0.2133
		4 00000000	2	-0.67397	0.5012	-0.67043	-1.32614
Male	\$7		~		-		0 1055
	Nurses	4.33333333		0.5012		0.5035	0.1865
Female	Nurses Others	4.74074074	3	0.117612	0.670427	0.5035	-0.81103
Female Female			3 4		0.670427		

Time Alone

Sex	Occupation	TASTRT1			Lsmean(i)=Ls		Pr > T 4
	-	Lsmean	i/	j	1 2	3	4
Male	Others	5.47826087	1	•	-1.33486	-0.31088	-1.02209
					0.1836	0.7563	0.3081
Male	Nurses	6.16666667	2	1.33485		0.984761	0.715878
				0.183		0.3261	0.4750 -0.46701
Female	Others	5.59259259	3	0.31087		•	0.6411
				0.756		0.467015	0.0411
Female	Nurses	5.78000000	4	1.02208		0.6411	•
				0.308	0.4750	0.0411	
Library							
_	0	n LIBSTRT1	ጥ	for HO:	Lsmean(i)=L	smean(j) /	Pr > T
Sex	Occupation	Lsmean	i/		1 2	3	. 4
		Demean	-/	J	_		
Male	Others	3.58695652	1	•	0.174528	-0.22434	2.899435
Mare	Others	5,555555			0.8616	0.8227	0.0042
Male	Nurses	3.50000000	2	-0.1745		-0.29593	1.418102
				0.861		0.7676	0.1579
Female	Others	3.66666667	3	0.22434			2.33865
• • • • • • • • • • • • • • • • • • • •				0.822			0.0205
Female	Nurses	2.76000000	4	-2.8994			•
				0.004	12 0.1579	0.0205	
TILL TO	.i.amda						
With Fr	rienas						
		GDGDDII1	m	for HO:	Lsmean(i)=L	smean(i) /	Pr > T
Sex	Occupation	n SFSTRT1 Lsmean	i/		1 2	_	4
		LSmean	1/	J	-		
Wala	Others	5.77173913	1	•	0.850912	1.846645	-0.20204
Male	Others	3.77273323	_		0.3960	0.0665	0.8401
Male	Nurses	5.41666667	2	-0.8509	91 .	0.412226	
nare				0.396		0.6807	
Female	Others	5.2222222	3				-1.84103
				0.066			0.0673
Female	Nurses	5.82000000	4	0.20203			
				0.840	0.3573	0.0673	
Reading	w Mail						
Reading	y Mali						
Sex	Occupatio	n RMSTRT1	${f T}$	for HO:	Lsmean(i)=I	Smean(j) /	Pr > T
Dex	Occupation	Lsmean		/j	1 2		4
			·				0 00444
Male	Others	6.33695652	1	•	-1.13053		
					0.2598		
Male	Nurses	6.75000000	2	1.1305	32 .	2.62314	0.9140/5

				0.2598		0.0095	0.3616
Female	Others	5.66666667	3	-2.57267 0.0109	-2.62314 0.0095	•	-2.57954 0.0107
Female	Nurses	6.40000000	4	0.301435 0.7634	-0.91468 0.3616	2.579539 0.0107	•
Writing	Mail						
Sex	Occupatio	n WMSTRT1 Lsmean	T i/		smean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Others	5.63043478	1	•	-0.07746 0.9383	1.33488 0.1836	1.159422 0.2478
Male	Nurses	5.66666667	2	0.077463	•	0.91066 0.3637	0.707666 0.4801
Female	Others	5.18518519	3	-1.33488 0.1836	-0.91066 0.3637	•	-0.37042 0.7115
Female	Nurses	5.32000000	4	-1.15942 0.2478	-0.70767 0.4801	0.370421 0.7115	•

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Time B.97: Least square means, t-tests, and p-values for social field stress by sex, occupation and sex by occupation interactions for nurses, and all other respondents, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test	P-value					
Sex Effects									
Self	Males Females	5.22339744 5.96790541	-2. 97608 0	.0033					
Significant Other	Males Females	6.76089744 6.58994932	0.848819 (3969					
Children	Males Females	6.74615385 7.50823480	-2.58971	0.0103					
Supervisor	Males Females	5.37371795 5.62880068	-0.80982	0.4189					
Coworkers	Males Females	5.22692308 5.52850507	-1.01221	0.3126					
Occupation	effects								
Self	Others Nurses	5.36213617 5.82916667	-1.86689	0.0633					
Significant Other	Others Nurses	6.71855509 6.63229167	0.428329	0.6688					
Children	Others Nurses	7.14345114 7.11093750	0.110488	0.9121					
Supervisor	Others Nurses	4.91606029 6.08645833	-3.7157	£000.0					
Coworkers	Others Nurses	4.89449064 5.86093750	-3.24373	0.0014					
Sex by Occupation Interaction									

Self

Sex Occupation STYOUT1 T for HO: Lsmean(i)=Lsmean(j) / Pr > |T| Lsmean i/j 1 2 3 4

Male	Others	4.91346154	1	•	-1.54699	-3.23123	-5.25638	
Marc	00022	•			0.1233	0.0014	0.0001	
Male	Nurses	5.53333333	2	1.546993	•	-0.62484	-1.42166 0.1566	4
-			_	0.1233	0 604040	0.5327	-1.04862	•
Female	Others	5.81081081	3	3.231225	0.624842	•	0.2955	
				0.0014 5.256383	0.5327 1.421664	1.048622		
Female	Nurses	6.12500000	4	0.0001	0.1566	0.2955	·	
				0.0001		0.200-		
a::e:	+ Otho	rc						
Signifi	cant Other	. 5						
Sex	Occupation	on STSSOT1	${f T}$		mean(i)=Ls	,	Pr > T	
DCA	o o o a p	Lsmean	i/	j 1	2	3	4	
					0 170000	0 625250	1.38617	
Male	Others	6.78846154	1	•	0.170898 0.8645	0.625359	0.1671	4
			_	0 1700		0.236877	0.603152	•
Male	Nurses	6.73333333	2	-0.1709	•	0.8130	0.5470	
			3	0.8645 -0.62536	-0.23688	•	0.486707	
Female	Others	6.64864865	3	0.5324	0.8130	•	0.6270	
	••	c =2125000	4	-1.38617	-0.60315	-0.48671	•	
Female	Nurses	6.53125000	*	0.1671	0.5470	0.6270		(
				0.10,1				
Childre	'n							
CHITALE	•••							
					// T =		Pr > T	
Sex	Occupation				mean(i)=Ls 2	/ (ز) mean: 3	Pr > T	_
		Lsmean	i/	j 1	2	.	•	•
		6 60000760	1		-0.22848	-2.76201	-2.69086	
Male	Others	6.69230769	1	•	0.8195	0.0062	0.0077	
W- 1 -	Numana	6.80000000	2	0.228479	•	-1.52112	-1.27028	
Male	Nurses	6.8000000	L	0.8195		0.1297	0.2054	
Female	Others	7.59459459	3	2.762014	1.521121	•	0.490055	(
remare	Others	7.55455155	•	0.0062	0.1297		0.6246	
Female	Nurses	7.42187500	4	2.690857	1.270277	-0.49006	•	
1 CMG1C				0.0077	0.2054	0.6246		
								4
Supervi	sor					1		•
		on STSUPT1	ηr	for HO: Ls	smean(i)=Ls	smean(j) /	Pr > T	
Sex	o		-			3	. 4	
	Occupati		i/	'i 1	2	3		
	Occupati	Lsmean	i/	'j 1	2	3		
Male		Lsmean	i/ 1	'j 1 •	-3.53977	-2.4897	-4.91183	
Male	Occupati Others			· ·	_	-2.4897 0.0135	0.0001	
	Others	Lsmean		·	-3.53977	-2.4897 0.0135 1.636989	0.0001 0.687792	•
Male Male		Lsmean 4.48076923	1	3.539773 0.0005	-3.53977 0.0005	-2.4897 0.0135	0.0001 0.687792 0.4923	•
Male	Others	Lsmean 4.48076923	1	3.539773 0.0005 2.489705	-3.53977 0.0005 ·	-2.4897 0.0135 1.636989	0.0001 0.687792 0.4923 -1.47087	
	Others Nurses	Lsmean 4.48076923 6.26666667 5.35135135	1 2	3.539773 0.0005 2.489705 0.0135	-3.53977 0.0005 -1.63699 0.1031	-2.4897 0.0135 1.636989 0.1031	0.0001 0.687792 0.4923 -1.47087 0.1428	
Male	Others Nurses	Lsmean 4.48076923 6.26666667	1 2	3.539773 0.0005 2.489705	-3.53977 0.0005 ·	-2.4897 0.0135 1.636989 0.1031	0.0001 0.687792 0.4923 -1.47087	•

Sex	Occupation	n STCOWT1 Lsmean	T i/		smean(i)=Ls 2	smean(j) /	Pr > T 4
Male	Others	4.65384615	1	•	-2.40172	-1.45514	-4.61925
					0.0172	0.1471	0.0001
Male	Nurses	5.80000000	2	2.401717	•	1.257095	-0.24588
				0.0172		0.2101	0.8060
Female	Others	5.13513514	3	1.455137	-1.2571	•	-2.20471
				0.1471	0.2101		0.0285
Female	Nurses	5.92187500	4	4.619247	0.245882	2.20471	•
				0.0001	0.8060	0 0285	

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Table B.98: Least square means, t-tests and p-values for SCL-90 subscales by sex, occupation, and sex by occupation interactions for nurses and all others, Comfort study, time 1.

Construct S	ubgroup	Lsmeans	T-test	P-value
Sex Effects				
Somatization	Male Females	0.43897627 0.50375406	-0.63968	0.5231
Depression	Males Females	0.82425140 1.05367588	-1.73281	0.0846
Anxiety	Males Females	0.50107490 0.72060268	-1.84395	0.0666
Hostility	Males Females	0.79131993 0.73385417	0.413997	0.6793
Occupation E	ffects			
Somatization	Others Nurses	0.50526415 0.43746618	0.66950	6 0.5039
Depression	Others Nurses	0.99018546 0.88774182	0.77374	2 0.4399
Anxiety	Others Nurses	0.65750347 0.56417411	0.78393	31 0.4340
Hostility	Others Nurses	0.89012945 0.63504464	1.83769	0.0675

Somatization

Sex	Occupation	n SOMT1 Lsmean	T i/		mean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Others	0.43152398	1	•	-0.09146 0.9272	-1.31762 0.1891	0.033169 0.9736
Male	Nurses	0.44642857	2	0.091464 0.9272	•	-0.73283 0.4645	0.106195 0.9155
Female	Others	0.57900433	3	1.317617	0.732835 0.4645	•	1.251372 0.2122
Female	Nurses	0.42850379	4	-0.03317 0.9736	-0.10619 0.9155	-1.25137 0.2122	•

Depression

Sex	Occupatio	n DEPT1 Lsmean	T i/		Lsi 1	mean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Others	0.89575554	1	•		0.671222 0.5028	-1.29053 0.1983	-1.06661 0.2874
Male	Nurses	0.75274725	2	-0.6712 0.502		•	-1.40308 0.1621	-1.2234 0.2225
Female	Others	1.08461538	3	1.290	53	1.403075 0.1621	•	0.393519
Female	Nurses	1.02273638	4	1.06666	06	1.2234	-0.39352 0.6943	•
Anxiety	,							
Sex	Occupatio	n ANXT1 Lsmean	T i/		Lsi 1	mean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Others	0.53786408	.1	•		0.384064	-1.81836 0.0704	-1.17888 0.2398
Male	Nurses	0.46428571	. 2	-0.3840 0.70		•	-1.47099 0.1428	-1.00674 0.3152
Female	Others	0.77714286	3	1.8183	64	1.470989 0.1428	•	0.799755
Female	Nurses	0.66406250	4	1.1788	75	1.006735	-0.79976 0.4247	•
Hostili	ty							
Sex	Occupatio	n HOST1 Lsmean	T i/		Lsi 1	mean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Others	0.88025890	1	•		0.796351 0.4267	-0.12867 0.8977	2.504166 0.0130
Male	Nurses	0.70238095	2	-0.7963 0.42		•	-0.79693 0.4264	0.582074
Female	Others	0.90000000	3	0.128	67	0.796932 0.4264	•	2.015665
Female	Nurses	0.56770833	4	-2.504; 0.01;	17	-0.58207 0.5611	-2.01567 1 0.0451	•

Table B.99: Least square means, t-tests, and p-values for perceived social support by sex, occupation, and sex by occupation interactions for nurses and all other respondents, Comfort study, time 1.

Construc	it S	Subgroup	lsm	eans	5	t-	-test	p-value			
Sex Effe	ects:										•
Support	ed Social - Spouse/ cant Other	Males Females	17.0 16.4	514° 367	7 48 068	0.6	588426	0.4922			
Perceive	ed Social - Friend	Males Females	16.0 16.7	762 343	001 458	-0	.92809	0.3548			·
Occupati	ion Effect	s:									(
Support	ed Social - Spouse/ cant Other	Others Nurses			1653 0163	0	.21517	0.8299			
Perceiv	ed Social - Friend	Others	15. 17.	144 665	6525 8935	-	3.55535	0.0005			(
	Occupation										
Perceiv	ed Social	Support -	- Spot	ıse/	/ Signif	ican	t Other	rs			
Sex	Occupatio	n PSS-S Lsme		T i/j		Lsm 1	ean(i)=	=Lsmean(j 2) /	Pr >	T } 4
Male	Others	17.8886	640	1	•	3	0.217	1 0.05	554	0.9387	193
Male	Nurses	16.2142	857	2	-1.2391 0.217	71	•	0.2699 : 0.78		0.54	114
Female	Others	15.7916	667	3	0.055	54	-0.2699 0.787	5	- 0.0	0.27	
Female	Nurses	17.0817	469	4	-0.938 0.349		0.61200			•	
Perceiv	red Social	Support	- Fri	end							•
Sex	Occupation	on PSS-	Frnd ean	T i/	for HO	Lsi 1	mean(i)	=Lsmean(] 2	j) / 3		**
Male	Others	14.5809	717	1	•		-2.7869 0.006	0 0.1	933	-4.65 0.0	001 '
Male	Nurses	17.5714	286	2	2.7869	94	•	1.498	629	-0.16	785

				0.0060		0.1360	0.8669
Female	Others	15.7083333	3	1.306463	-1.49863	•	-2.21253
1011010	0 00.00			0.1933	0.1360		0.0284
Female	Nurses	17.7603583	4	4.657637	0.167853	2.21253	•
1 Cmarc				0.0001	0.8669	0.0284	

i

Table B.100: Least square means, t-tests, and p-values for SCL-90 subscales by sex, occupation, and sex by occupation interactions for nurses and all other respondents, Comfort study, time 1.

Construct S	Subgroup	lsmeans	t-test	p-value
Sex Effects:				
Somatization	Males Females	0.43897627 0.50375406	-0.63968	0.5231
Depression	Males Females	0.82425140 1.05367588	-1.73281	0.0846
Anxiety	Males Females	0.50107490 0.72060268	-1.84395	0.0666
Hostility	Males Females	0.79131993 0.73385417	0.413997	0.6793
Occupation E	ffects:			
Somatization	Others Nurses	0.50526415 0.43746618	0.669506	0.5039
Depression	Others Nurses	0.99018546 0.88774182	0.773742	0.4399
Anxiety	Others Nurses	0.65750347 0.56417411	0.783931	0.4340
Hostility	Others Nurses	0.89012945 0.63504464	1.837694	0.0675

Somatization

Sex	Occupation	Somatiz Lsmean	T i/		smean(i)=L 2	smean(j) /	Pr > T 4
Male	Others	0.43152398	1	•	-0.09146 0.9272	-1.31762 0.1891	0.033169 0.9736
Male	Nurses	0.44642857	2	0.091464	•	-0.73283 0.4645	0.106195 0.9155
Female	Others	0.57900433	3	1.317617	0.732835 0.4645	•	1.251372 0.2122
Female	Nurses	0.42850379	4	-0.03317 0.9736	-0.10619 0.9155	-1.25137 0.2122	•

Depression

Sex	Occupation	n Depress	T	for HO: L	smean(i)=L	smean(j) /	Pr > T
	•	Lsmean	i/]	j 1	2	3	4
Male	Others	0.89575554	1	•	0.671222	-1.29053	-1.06661
					0.5028	0.1983	0.2874
Male	Nurses	0.75274725	2	-0.67122	•	-1.40308	-1.2234
				0.5028		0.1621	0.2225
Female	Others	1.08461538	3	1.29053	1.403075	•	0.393519
				0.1983	0.1621		0.6943
Female	Nurses	1.02273638	4	1.066606	1.2234	-0.39352	•
				0.2874	0.2225	0.6943	
Anxiety							
Sex	Occupation	n Anxiety	T	for HO: L	smean(i)=L	smean(j) /	Pr > T
		Lsmean	i/	j 1	2	3	4
Male	Others	0.53786408	1	•	0.384064	-1.81836	-1.17888
					0.7013	0.0704	0.2398
Male	Nurses	0.46428571	2	-0.38406	•	-1.47099	-1.00674
			_	0.7013	1 470000	0.1428	0.3152 0.799755
Female	Others	0.77714286	3	1.818364	1.470989 0.1428	•	0.799755
5	37	0 66406350	4	0.0704 1.178875	1.006735	-0.79976	0.4247
Female	Nurses	0.66406250	4	0.2398	0.3152	0.4247	•
Hostili				0.2336	0.3132	0.4247	
nostili	Ly						
Sex	Occupation	n Hostili	${f T}$	for HO: L	.smean(i)=L	smean(j) /	Pr > T
		Lsmean	i /	j 1	2	3	4
			•				
Male	Others	0.88025890	1	•	0.796351	-0.12867	2.504166
					0.4267	0.8977	0.0130
Male	Nurses	0.70238095	2	-0.79635	•	-0.79693	0.582074
_			_	0.4267	0.706022	0.4264	0.5611
Female	Others	0.90000000	3	0.12867	0.796932	•	2.015665
	17	0 56770033	4	0.8977 -2.50417	0.4264 -0.58207	-2.01567	0.0451
Female	Nurses	0.56770833	4	0.0130	0.5611	0.0451	•
				0.0130	0.2011	0.0451	

Table B.101: Least square means, t-tests and p-values for Ways of Coping subscales by sex, occupation, and sex by occupation interactions for nurses and all other respondents, Comfort study, time 1.

· · · · · · · · · · · · · · · · · · ·				
Construct	Subgroup	lsmeans	t-test p	-value
Sex Effects:				
Confrontive Coping	Males Females	1.02472527 0.93392946	0.906264	0.3659
Distancing	Males Females	1.18223443 1.18036927	0.01983	0.9842
Self Control	Males Females	1.33281005 1.41927471	- 0.87989	0.3800
Seeking Social Support	Males Females	1.27197802 1.32285974	-0.52356	0.6012
Accepting Responsibility	Males Females	0.92582418 0.78017884	1.192495	0.2345
Escape Avoidance	Males Females	1.01167582 1.16977149	-1.46655	0.1441
Planful Problem Solving	Males Females	1.59523810 1.42867197	1.615416	0.1078
Positive Reappraisal	Males Females	1.37048666 1.43421333	-0.58222	0.5611
Occupation Effe	cts			
Confrontive Coping	Others Nurses	1.07950383 0.87915090	1.99979	0.0469
Distancing	Others Nurses	1.25993451 1.10266919	1.672011	0.0961
Self Controlling	Others Nurses	1.41106513 1.34101964	0.712801	0.4768
Seeking Social Support	Others Nurses	1.26129426 1.33354351	-0.74342	0.4581
Accepting Responsibility	Others Nurses	0.95379620 0.75220681	1.650547	0.1004

Avoidance Nurses 1.01213745	
Planful Others 1.48723499 -0.47949 0.6321 Problem Nurses 1.53667507 Solving	
Positive Others 1.38846867 -0.25364 0.8000 Reappraisal Nurses 1.41623131	
Sex by Occupation Interaction	
Confrontive Coping	
Sex Occupation Confcoping T for H0: Lsmean(i)=Lsmean(j) / Pr Lsmean i/j 1 2 3	> T 4
Male Others 1.11333311 1 · 1.03/13/ 3/13/	221617 0.0015
Male Nurses 0.93589744 2 -1.097110.61261 0.	680276 0.4971
Female Others 1.04545455 3 -0.61362 0.612612 . 1.	889973
0.5402 0.5409 Female Nurses 0.82240437 4 -3.22162 -0.68028 -1.88997	0.0603
0.0015 0.4971 0.0603	
Distancing	
Sex Occupation Distancing T for H0: Lsmean(i)=Lsmean(j) / P Lsmean i/j 1 2 3	r > T 4
Mala Nepare 1 /8/343/3 1 #1000100 00000000000000000000000000	875554 0.0622
Male Nurses 1.07692308 2 -1.385460.92558 -0	.32876 0.7427
Female Others 1.23232323 3 -0.53002 0.925579 . 0.	937819 0.3495
0.5967 0.3558 Female Nurses 1.12841530 4 -1.87555 0.328757 -0.93782 0.0622 0.7427 0.3495	•
••••••••••••••••••••••••••••••••••••••	
Self Control	imi
Sex Occupation Scontrol T for HO: Lsmean(i)=Lsmean(j) / Pr Lsmean i/j 1 2 3	7 T 4
Male Others 1.42386185 1 . 1.146539 0.23512 -0	0.18523 0.8532
	0.2265
	0.36294
Female Nurses 1.44028103 4 0.185229 1.213181 0.362938 0.8532 0.2265 0.7170	•

Seeking Social Support

Sex	Occupatio	n SeekSSupt Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4	•					
Male	Others	1.30036630	1 . 0.361453 0.725889 -1.40455 0.7182 0.4688 0.1618						
Male	Nurses	1.24358974	2 -0.36145 . 0.123172 -1.11167 0.7182 0.9021 0.2677						
Female	Others	1.2222222	3 -0.72589 -0.12317 · -1.75815 0.4688 0.9021 0.0803						
Female	Nurses	1.42349727	4 1.404554 1.111674 1.758147 · 0.1618 0.2677 0.0803						
Accepting Responsibility									
Sex	Occupatio	n AcceptResp Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4						
Male	Others	1.04395604	1 . 1.196849 1.332835 3.151762 0.2328 0.1841 0.0019						
Male	Nurses	0.80769231	2 -1.196850.25661 0.545628 0.2328 0.7978 0.5859	•					
Female	Others 0.1841	0.86363636 0.7978	3 -1.33284 0.256608 . 1.160166 0.2474						
Female	Nurses	0.69672131	4 -3.15176 -0.54563 -1.16017 · 0.0019 0.5859 0.2474	•					
Escape-	avoidance			-					
Sex	Occupatio	n EscAvoid Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4						
Male	Others	1.08104396	1 . 0.796247 -1.47833 -0.00949 0.4269 0.1409 0.9924	•					
Male	Nurses	0.94230769	2 -0.796251.63837 -0.77799 0.4269 0.1030 0.4375						
Female	Others	1.25757576	3 1.478332 1.63837 · 1.382885 0.1409 0.1030 0.1683						
Female	Nurses	1.08196721	4 0.009494 0.777989 -1.38288 .	4					
Planful Problem Solving									
Planful	Problem S		0.9924 0.4375 0.1683						
Planful Sex			0.9924 0.4375 0.1683 T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4						
		Solving on PlanProbSo	T for HO: Lsmean(i)=Lsmean(j) / Pr > T						
Sex	Occupatio	Solving on PlanProbSo Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4 1 . 0.065938 1.987411 1.259277						
Sex Male	Occupation Others	Solving on PlanProbSo Lsmean 1.60073260	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4 1 . 0.065938 1.987411 1.259277						

Positive Reappraisal

Sex	Occupation	PosApprai			smean(i)=L	smean(j) /	Pr > T
		Lsmean	i/	j 1	2	3	4
Male	Others :	1.40031397	1	•	0.337202	0.195395	-0.92663
Marc	0011022				0.7363	0.8453	0.3553
Male	Nurses	1.34065934	2	-0.3372	•	-0.18407	-0.82924
Mare	Mul Deb			0.7363		0.8541	0.4080
Female	Others :	1.37662338	3	-0.1954	0.184073	•	-0.89332
remare	O CITCE D			0.8453	0.8541		0.3728
Female	Nurses	1.49180328	4	0.926627	0.829244	0.893317	•
remare	MULDED .		-	0.3553	0.4080	0.3728	

Table B.102: Least square means, t-tests and p-values for stressors by sex, occupation and sex by occupation for nurses and corpsmen, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test	P-value
Sex Effects				
Injury Factor	Males Females	2.68588640 3.40601023	-2.68637	0.0079
Work demands factor	Males Females	3.65117613 5.00063939	-4.7466	0.0001
Heat Stress	Males Females	5.08218589 5.14482097	-0.18682	0.8520
Separation from Family	Males Females	5.78786575 5.66592072	0.416467	0.6776
Occupation Eff	ects			
Injury Factor	Corpsmen Nurses	3.25576218 2.83613445	1.565393	0.1192
Work demands Factor	Corpsmen Nurses	4.48865025 4.16316527	1.14486	0.2538
Heat Stress	Corpsmen Nurses	5.05578837 5.17121849	-0.3443	0.7310
Separation from Family	Corpsmen Nurses	5.39811420 6.05567227	-2.2457	0.0259

Injury Factor

Sex	Occupatio	n MINJSTS Lsmean	T i/	_	smean(i)=Ls 2	mean(j) / 3	Pr > T 4
Male	Corpsmen	2.72891566	1	•	0.209105 0.8346	-3.1392 0.0020	-1.28973 0.1988
Male	Nurses	2.64285714	2	-0.20911 0.8346		-2.36043 0.0193	0.3564
Female	Corpsmen	3.78260870	3	3.139196		•	2.192101 0.0296
Female	Nurses	3.02941176	4	1.289728		-2.1921	•

Trauma-related work demands factor:

Sex	Occupatio	n MWRKSTS Lsmean	T i/		Lsmean(i)=Ls 1 2	smean(j) /	Pr > T 4			
Male	Corpsmen	4.06425703	1	•	1.892773 0.0600	-2.38432 0.0181	-4.14393 0.0001			
Male	Nurses	3.23809524	2	-1.8927 0.060	7 .	-3.27073 0.0013	-4.17285 0.0001			
Female	Corpsmen	4.91304348	3	2.38432 0.018		•	-0.48076 0.6313			
Female	Nurses	5.08823529	4	4.14392	6 4.172847	0.480759 0.6313	•			
Heat Stress										
Sex	Occupatio	n HEASTRT1 Lsmean	T i/		Lsmean(i)=Ls 1 2	smean(j) / 3	Pr > T 4			
Male	Corpsmen	4.80722892	1	•	-1.06837 0.2868	-1.18418 0.2379	-0.61107 0.5419			
Male	Nurses	5.35714286	2	1.06836 0.286	6 .	0.087424	0.711191			
Female	Corpsmen	5.30434783	3	1.18418	2 -0.08742	•	0.742454			
Female	Nurses	4.98529412	4	0.237 0.61107 0.541	2 -0.71119	-0.74245 0.4588	0.4588			
Separat	ion from F	amily								
Sex	Occupation	n SFMSTRT1 Lsmean	T i/		Lsmean(i)=Ls 1 2	smean(j) / 3	Pr > T 4			
Male	Corpsmen	5.36144578	1	•	-1.89713	-0.20002	-2.10459			
Male	Nurses	6.21428571	2	1.89712 0.059		0.8417 1.477939 0.1411	0.0367 0.694694 0.4881			
Female	Corpsmen	5.43478261	3	0.20002	5 -1.47794	•	-1.23172 0.2196			
Female	Nurses	5.89705882	4	2.10459	2 -0.69469	1.231717 0.2196	•			

Table B.103: Least square means, t-tests and p-values for stress reducers by sex, occupation and sex by occupation interactions for nurses and corpsmen, Comfort study, time 1.

Stressor	Sex	Lsmeans	T-test	P-value
Sex Main Effe	ects			
Gym	Males Females	4.99285714 4.60500000	0.918356	0.3600
Movies	Males Females	4.69285714 3.89000000	2.377509	0.0187
Eating	Males Females	3.76071429 3.41500000	0.957633	0.3399
Weather Decks	Males Females	4.90357143 5.23000000	-0.94208	0.3477
Lounges	Males Females	3.68690476 3.42500000	0.699124	0.4856
Reading	Males Females	4.46666667 4.94625000	-1.26507	0.2079
Time Alone	Males Females	5.86190476 5.48375000	1.03131	0.3041
Library	Males Females	3.63571429 3.09875000	1.521307	0.1304
Separation from Family	Males Females	5.62261905 5.59750000	0.087097	0.9307
Reading Mail	Males Females	6.57500000 5.95000000	2.444479	0.0157
Writing Mail	Males Females	5.64047619 5.12875000	1.553319	0.1225
Occupation Ma	ain Effect	5		
Gym	Corpsmen Nurses	4.86785714 4.73000000	0.326414	0.7446
Movies	Corpsmen Nurses	4.44285714 4.14000000	0.896854	0.3713
Eating	Corpsmen Nurses	3.01071429 4.16500000	-3.19739	0.0017

Weather Decks	Corpsmen Nurses	4.77857143 5.35500000	-1.66358	0.0984_
Lounges	Corpsmen Nurses	3.60357143 3.50833333	0.254227	0.7997
Reading	Corpsmen Nurses	4.70625000 4.70666667	-0.0011	0.9991
Time Alone	Corpsmen Nurses	5.37232143 5.97333333	-1.63909	0.1034
Library	Corpsmen Nurses	3.60446429 3.13000000	1.344235	0.1810
Separation from Family	Corpsmen Nurses	5.60178571 5.61833333	-0.05738	0.9543
Reading Mail	Corpsmen Nurses	5.95000000 6.57500000	-2.44448	0.0157
Writing Mail	Corpsmen Nurses	5.27589286 5.49333333	-0.66003	0.5103

Gym

Sex	Occupatio				mean(i)=Ls	mean(j) /	Pr > T
Male	Corpsmen	Lsmean 4.98571429	i/) <u> </u>	·-0.02297	0.4274	1.426535
Maie	COLPDMCII				0.9817	0.6697	0.1559
Male	Nurses	5.00000000	2	0.022973	•	0.328928	0.84404
marc				0.9817		0.7427	0.4000
Female	Corpsmen	4.75000000	3	-0.4274	-0.32893	•	0.507295
1 CMG 1 C	COLPOMOII			0.6697	0.7427		0.6127
Female	Nurses	4.46000000	4	-1.42654	-0.84404	-0.50729	•
1 Cma1C				0.1559	0.4000	0.6127	

Movies

Sex	Occupatio	n MOVSTRT1 Lsmean	T i/		mean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Corpsmen	4.88571429	1	•	0.775769 0.4392	2.008571 0.0465	3.752495 0.0003
Male	Nurses	4.50000000	2	-0.77577 0.4392	•	0.822764	1.407492
Female	Corpsmen	4.00000000	3	-2.00857 0.0465	-0.82276 0.4120	•	0.481315 0.6310
Female	Nurses	3.78000000	4	-3.75249	-1.40749	-0.48132	•

Eating

Sex	Occupation	n EATSTRT1 Lsmean	T i/		mean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Corpsmen	3.27142857	1	•	-1.84101 0.0677	1.106079 0.2705	-2.56681 0.0113
Male	Nurses	4.25000000	2	1.841013 0.0677	•	2.308843	0.310857
Female	Corpsmen	2.75000000	3	-1.10608 0.2705	-2.30884 0.0224	•	-2.7218 0.0073
Female	Nurses	4.08000000	4	2.566808 0.0113	-0.31086 0.7564	2.7218 0.0073	•
Weather	Decks						
							ns simi

Sex	Occupation	n WDSTRT1 Lsmean	T i/		mean(1)=Ls 2	mean(j) /	4
Male	Corpsmen	4.55714286	1	•	-1.35808 0.1766	-0.97875 0.3293	-2.98615 0.0033
Male	Nurses	5.25000000	2	1.358079 0.1766	•	0.400922 0.6891	-0.40008 0.6897
Female	Corpsmen	5.00000000	3	0.978751 0.3293	-0.40092 0.6891	•	-0.9808 0.3283
Female	Nurses	5.46000000	4	2.986147 0.0033	0.400081 0.6897	0.980798 0.3283	•

Lounges

Sex	Occupation	n LNGSTRT1 Lsmean	T i/		Lsmean(i)=Ls 1 2	mean(j) /	Pr > T 4
Male	Corpsmen	3.95714286	1	•	0.979873 0.3288	1.445531 0.1505	1.092562 0.2764
Male	Nurses	3.41666667	2	-0.9795 0.3288		0.247218 0.8051	-0.32306 0.7471
Female	Corpsmen	3.25000000	3	-1.4455 0.150		•	-0.69024 0.4912
Female	Nurses	3.60000000	4	-1.0925 0.276	6 0.323059	0.690242 0.4912	•

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Reading

Male	Corpsmen	4.60000000	1	•	0.477749	-0-42926	-1.45105			
	_		2	-0.47775	0.6336	0.6684 -0.70236	0.1489 -1.30019			
Male	Nurses	4.33333333	2	0.6336	•	0.4836	0.1956			
Female	Corpsmen	4.81250000	3	0.429257 0.6684	0.702355 0.4836	•	-0.52131 0.6030			
Female	Nurses	5.08000000	4	1.451053	1.300185	0.521309	• •			
				0.1489	0.1956	0.6030				
Time alone										
Sex	Occupation	n TASTRT1	T	for HO: Ls	smean(i)=Ls	smean(j) /	Pr > T			
	_	Lsmean	i/	j 1	2	3	4			
Male	Corpsmen	5.55714286	1	•	-1.129	0.77199	-0.69653			
Male	Nurses	6.16666667	2	1.128997	0.2608	0.4414 1.483876	0.4872 0.696123			
Maie	Nurses	0.10000007	2	0.2608	•	0.1400	0.4875			
Female	Corpsmen	5.18750000	3	-0.77199	-1.48388	•	-1.1938			
		5 5000000	•	0.4414	0.1400	1.193798	0.2345			
Female	Nurses	5.78000000	4	0.696529 0.4872	-0.69612 0.4875	0.2345	•			
Library	•									
Sex	Occupatio	n LTBSTRT1	T	for HO: Ls	mean(i)=Ls	smean(i) /	Pr > T!			
Sex	Occupation	on LIBSTRT1 Lsmean	T i/		mean(i)=Ls 2	smean(j) / 3	Pr > T 4			
Sex Male	-									
Male	Occupation Corpsmen	Lsmean 3.77142857	i/ 1	j 1	2	0.724494 0.4699	3.283976 0.0013			
	-	Lsmean	i/	j 1 -0.52229	0.522288	0.724494 0.4699 0.098395	3.283976 0.0013 1.38399			
Male Male	Corpsmen	Lsmean 3.77142857 3.50000000	i/ 1 2	-0.52229 0.6023	0.522288 0.6023	0.724494 0.4699 0.098395 0.9218	3.283976 0.0013 1.38399 0.1685			
Male	Corpsmen	Lsmean 3.77142857	i/ 1	-0.52229 0.6023 -0.72449	2 0.522288 0.6023	0.724494 0.4699 0.098395	3.283976 0.0013 1.38399 0.1685 1.41809			
Male Male	Corpsmen	Lsmean 3.77142857 3.50000000	i/ 1 2	-0.52229 0.6023	0.522288 0.6023	0.724494 0.4699 0.098395 0.9218	3.283976 0.0013 1.38399 0.1685			
Male Male Female	Corpsmen Nurses Corpsmen	Lsmean 3.77142857 3.50000000 3.43750000	i/ 1 2 3	-0.52229 0.6023 -0.72449 0.4699	2 0.522288 0.6023 -0.09839 0.9218	0.724494 0.4699 0.098395 0.9218	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583			
Male Male Female Female	Corpsmen Nurses Corpsmen Nurses	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000	i/ 1 2 3	-0.52229 0.6023 -0.72449 0.4699 -3.28398	2 0.522288 0.6023 -0.09839 0.9218 -1.38399	0.724494 0.4699 0.098395 0.9218	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583			
Male Male Female Female	Corpsmen Nurses Corpsmen	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000	i/ 1 2 3	-0.52229 0.6023 -0.72449 0.4699 -3.28398	2 0.522288 0.6023 -0.09839 0.9218 -1.38399	0.724494 0.4699 0.098395 0.9218	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583			
Male Male Female Female Separat	Corpsmen Nurses Corpsmen Nurses ion from F	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000	i/ 1 2 3 4	-0.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583			
Male Male Female Female	Corpsmen Nurses Corpsmen Nurses	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000	i/ 1 2 3 4	j 1 -0.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583			
Male Male Female Female Separat	Corpsmen Nurses Corpsmen Nurses ion from F	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000 Camily on SFSTRT1 Lsmean	i/ 1 2 3 4	j 1 -0.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583			
Male Male Female Female Separat	Corpsmen Nurses Corpsmen Nurses ion from F	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000 Camily on SFSTRT1	i/ 1 2 3 4	j 1 -0.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583 smean(j) / 3	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583 . Pr > T 4 0.03406			
Male Male Female Female Separat	Corpsmen Nurses Corpsmen Nurses ion from F	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000 Camily on SFSTRT1 Lsmean	i/ 1 2 3 4	j 10.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013 for H0: Ls j 1	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583 smean(j) / 3 1.204355 0.2304 0.08028	Pr > T 0.03406 0.9729 -0.92319			
Male Male Female Female Separat Sex Male Male	Corpsmen Nurses Corpsmen Nurses ion from F Occupation Corpsmen Nurses	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000 Camily on SFSTRT1 Lsmean 5.82857143 5.41666667	i/ 1 2 3 4 T i/ 1	j 10.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013 for H0: Ls j 10.97002 0.3337	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685 smean(i)=Ls 2 0.970015 0.3337	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583 smean(j) / 3 1.204355 0.2304 0.08028 0.9361	Pr > T 0.03406 0.9729 -0.92319 0.3575			
Male Male Female Female Separat Sex Male	Corpsmen Nurses Corpsmen Nurses ion from F Occupation	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000 Camily on SFSTRT1 Lsmean 5.82857143	i/ 1 2 3 4 Ti/ 1	1 -0.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013 for H0: Ls j -0.97002 0.3337 -1.20435	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685 smean(i)=Ls 2 0.970015 0.3337 -0.08028	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583 smean(j) / 3 1.204355 0.2304 0.08028	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583 Pr > T 4 0.03406 0.9729 -0.92319 0.3575 -1.13994			
Male Male Female Female Separat Sex Male Male	Corpsmen Nurses Corpsmen Nurses ion from F Occupation Corpsmen Nurses	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000 Camily on SFSTRT1 Lsmean 5.82857143 5.41666667	i/ 1 2 3 4 T i/ 1	j 10.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013 for H0: Ls j 10.97002 0.3337	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685 smean(i)=Ls 2 0.970015 0.3337	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583 smean(j) / 3 1.204355 0.2304 0.08028 0.9361	Pr > T 0.03406 0.9729 -0.92319 0.3575			
Male Male Female Female Separat Sex Male Male Female	Corpsmen Nurses Corpsmen Nurses ion from F Occupation Corpsmen Nurses Corpsmen	Lsmean 3.77142857 3.50000000 3.43750000 2.76000000 Camily on SFSTRT1 Lsmean 5.82857143 5.41666667 5.37500000	i/ 1 2 3 4 T i/ 1 2 3	j 1 -0.52229 0.6023 -0.72449 0.4699 -3.28398 0.0013 for H0: Ls j 1 -0.97002 0.3337 -1.20435 0.2304	2 0.522288 0.6023 -0.09839 0.9218 -1.38399 0.1685 smean(i)=Ls 2 0.970015 0.3337 -0.08028 0.9361	0.724494 0.4699 0.098395 0.9218 -1.41809 0.1583 smean(j) / 3 1.204355 0.2304 0.08028 0.9361	3.283976 0.0013 1.38399 0.1685 1.41809 0.1583 Pr > T 4 0.03406 0.9729 -0.92319 0.3575 -1.13994 0.2562			

Reading Mail

Sex	Occupation	n RMSTRT1 Lsmean	T i/		mean(i)=Ls 2	mean(j) / 3	Pr > T 4
Male	Corpsmen	6.4000000	1	•	-0.92973 0.3541	2.695619 0.0079	-199E-17 1.0000
Male	Nurses	6.75000000	2	0.92973 0.3541	•	2.716676 0.0074	0.903658
Female	Corpsmen	5.50000000	3	-2.69562 0.0079	-2.71668 0.0074	•	-2.60059 0.0103
Female	Nurses	6.40000000	4	1.99E-15 1.0000	-0.90366 0.3677	2.600589 0.0103	•

Writing Mail

Sex	Occupation	wMSTRT1 Lsmean	T i/		mean(i)=Ls 2	mean(j) /	Pr > [T] 4
Male	Corpsmen	5.61428571	1	•	-0.10799 0.9142	1.573199 0.1179	1.02373 0.3077
Male	Nurses	5.6666667	2	0.107989 0.9142	•	1.229904	0.694648 0.4884
Female	Corpsmen	4.93750000	3	-1.5732 0.1179	-1.2299 0.2207	•	-0.85778 0.3924
Female	Nurses	5.32000000	4	-1.02373 0.3077	-0.69465 0.4884	0.857783 0.3924	•

Table B.104: Least square means, t-tests and p-values for social field stress by sex, occupation and sex by occupation interactions for nurses and corpsmen, Comfort study, time 1.

Sex Main Effects

Stressor	Sex	Lsmeans	T-test	P-value				
Self	Males Females	5.21603376 5.88858696	-2.49667	0.0135				
Significant Others	Males Females	6.81603376 6.54823370	1.211978	0.2271				
Child	Males Females	6.90632911 7.45006793	-1.75181	0.0815				
Supervisor	Males Females	5.38016878 5.60529891	-0.66682	0.5058				
Coworkers	Males Females	5.28607595 5.52615489	-0.76064	0.4479				
Occupation M	Occupation Main Effects:							
Self	Corpsmen Nurses	5.27545405 5.82916667	-2.0555	0.0413				
Significant Others	Corpsmen Nurses	6.73197578 6.63229167	0.45113	0.6524				
Child	Corpsmen Nurses	7.24545955 7.11093750	0.43340	0.6653				
Supervisor	Corpsmen Nurses	4.89900936 6.08645833	-3.51714	0.0006				
Coworkers	Corpsmen Nurses	4.95129334 5.86093750	-2.88202	0.0044				

Sex by Occupation Interaction

Self

Sex	Occupation			for H0: j	Lsmean(i)=Ls 1 2	mean(j) / 3	Pr > T 4
.Male	Corpsmen	4.89873418	1	•	-1.55601 0.1215	-2.19606 0.0294	
Male	Nurses	5.53333333	2	1.55600 0.121			-1.42435 0.1561

Female	Corpsmen	5.65217391	3	2.19605 0.029	4 0.	7286 8050	. ·	-1.34311 0.1810	
Female	Nurses	6.12500000	4	5.03544 0.000		12435 .1561	1.343115 0.1810	•	1
Signifi	cant Other	s							
Sex	Occupatio	n STSSOT1 Lsmean	T i/	for HO:	Lsmean 1	(i)=Ls 2	mean(j) / 3	Pr > T 4	1
Male	Corpsmen	6.89873418	1	•		94424	1.185117 0.2376	1.839672	
Male	Nurses	6.73333333	2	-0.4944 0.621		•	0.426474 0.6703	0.593087	
Female	Corpsmen	6.56521739	3	-1.1851 0.237	6 0	42647 .6703	•	0.117631 0.9065	
Female	Nurses	6.53125000	4	-1.8396 0.067	7 -0.	59309 .5539	-0.11763 0.9065	•	
Child			,						
	o	n STCHLDT1	T	for HO:	Lsmean	(i)=Ls	smean(j) /	Pr > T	
Sex	Occupatio	Lsmean	i		1	2	3	4	
Male	Corpsmen	7.01265823	1	•		45254 .6514	-1.1778 0.2405	-1.45837 0.1465	
Male	Nurses	6.80000000	2	-0.4525 0.653	54	•	-1.22488 0.2222	-1.29929 0.1955	
Female	Corpsmen	7.47826087	3	1.17780	2 1.2	24881	•	0.139009 0.8896	
Female	Nurses	7.42187500	4	1.4583	73 .1.2	99286 .1955	-0.13901 0.8896	•	
Supervi	.sor								
Sex	Occupation	on STSUPT1 Lsmean		for H0: /j	Lsmean 1	i(i)=Ls 2	smean(j) / 3	Pr > T 4	
Male	Corpsmen	4.49367089	1	• 1		46865	0.0610	0.0001	
Male	Nurses	6.26666667	2	3.4686 0.00		•	1.597695 0.1119		
Female	Corpsmen	5.30434783	3		08 -1.	59769 .1119	•	-1.3642 0.1742	
Female	Nurses	5.90625000	4		28 -0.	69228 .4897	1.364198 0.1742	•	
Coworke									
Sex	Occupation	on STCOWT1 Lsmean		for H0: /j	Lsmear 1	n(i)=L 2		Pr > T 4	ļ '

i

Male	Corpsmen	4.77215190	1	•	-2.15096	-0.89127	-4.02936
naic	001 P3	• • • • •			0.0328	0.3740	0.0001
Male	Nurses	5.80000000	2	2.150956	•	1.189099	-0.25041
Male	Nulses	3.0000000	_	0.0328		0.2360	0.8026
Female	Corpsmen	5.13043478	3	0.891273	-1.1891	•	-1.91876
remare	COLPSMen	3.230.10.1	_	0.3740	0.2360		0.0566
E-mala	Nurses	5.92187500	4	4.029361	0.250406	1.918756	•
Female	Nurses	5.92107300	•	0.0001	0.8026	0.0566	

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Table B.105: Least square means, t-tests, and p-values for SCL-90 outcomes by sex, occupation and sex by occupation interactions for nurses and corpsmen, Comfort study, time 1.

Sex Main Effects

Stressor	Sex	Lsmeans	T-test	P-value
Somatization	Males Females	0.45389131 0.55213068	-0.9249	0.3563
Depression	Males Females	0.86099713 1.10383614	-1.7146	0.0882
Anxiety	Males Females	0.52391501 0.71203125	-1.49515	0.1367
Hostility	Males Females	0.86384870 0.80052083	0.422911	0.6729
Occupation Ma	in Effects	· 5		
Somatization	Corpsmer Nurses	0.56855581 0.43746618	1.234179	0.2188
Depression	Corpsmer Nurses	n 1.07709145 0.88774182	1.336931	0.1830
Anxiety	Corpsmen Nurses	0.67177215 0.56417411	0.855188	0.3936
Hostility	Corpsmen Nurses	1.02932489 0.63504464	2.633047	0.0092

Sex by Occupation Interactions:

Somatization

Somacia	50maC12aC1011							
Sex	Occupatio	n SOMT1 Lsmean	T i/	for HO: Ls j 1	mean(i)=Ls 2	mean(j) / 3	Pr > T 4	
Male	Corpsmen	0.46135405	1	•	0.09375 0.9254	-1.56009 0.1206	0.355781 0.7224	
Male	Nurses	0.44642857	2	-0.09375 0.9254	•	-1.19869 0.2323	0.110654 0.9120	
Female	Corpsmen	0.67575758	3	1.560094 0.1206	1.198689 0.2323	•	1.757989 0.0805	
.Female	Nurses	0.42850379	4	-0.35578 0.7224	-0.11065 0.9120	-1.75799 0.0805	•	

Depression

Sex	Occupatio	n DEPT1 Lsmean	T i/		Ls: 1	mean(i)=Ls 2	mean(j) /	Pr > T 4	
Male	Corpsmen	0.96924700	1	•		1.01985 0.3092	-1.17701 0.2408	-0.43446 0.6645	
Male	Nurses	0.75274725	2	-1.019 0.30	92	•	-1.69416 0.0920	-1.24996 0.2130	
Female	Corpsmen	1.18493590	3	1.1770		1.694164	•	0.864883	
Female	Nurses	1.02273638	4	0.4344	56	1.249959 0.2130	-0.86488 0.3883	•	
Anxiety	Anxiety								
Sex	Occupation	n ANXT1 Lsmean	T i/		Ls 1	mean(i)=Ls 2	smean(j) /	Pr > T 4	
Male	Corpsmen	0.58354430	. 1	•		0.632384 0.5280	-1.08393 0.2799	-0.73618 0.4626	
Male	Nurses	0.46428571	2	-0.632 0.52		•	-1.30487 0.1937	-1.04113 0.2993	
Female	Corpsmen	0.76000000	3	1.0839	32	1.30487 0.1937	•	0.57585 0.5655	
Female	Nurses	0.66406250	4	0.7361	81	1.041135	-0.57585 0.5655	•	
Hostili	ty								
Sex	Occupatio	n HOST1 Lsmean	T i/		Ls 1	mean(i)=Ls 2	smean(j) / 3	Pr > T 4	
Male	Corpsmen	1.02531646	1	•		1.43881 0.1520	-0.04138 0.9670	3.51545 0.0006	
Male	Nurses	0.70238095	2	-1.438 0.15		•	-1.22703 0.2215	0.589709	
Female	Corpsmen	1.03333333	3	0.0413	78	1.227034	•	2.348299	
Female	Nurses	0.56770833	4	0.96 -3.515 0.00	45	0.2215 -0.58971 0.5562	-2.3483 10.0200	•	

Table B.106: Least square means, t-tests and p-values for perceived social support by sex, occupation and sex by occupation interactions for nurses and corpsmen, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test	P-value
Sex Main Effect				
Perceived Social Support - Spouse/ Significant Other	Males Females	17.1051186 15.9471235	1.177053	0.2414
Perceived Social Support - Friend	Males Females	15.9329815 16.4114292	-0.63708	0.5252
Occupation Main Effe	ct			
Perceived Social Support - Spouse/ Significant Other	Corpsmen Nurses	16.4042257 16.6480163	-0.2478	0.8047
Perceived Social Support - Friend	Corpsmen Nurses	14.6785172 17.6658935	-3.97783	0.0001

Perceived Social Support - Spouse/ Significant Others

Sex	Occupation	n PSSCORT1 Lsmean	T i/		smean(i)=Ls 2	mean(j) / 3	Pr > T 4
Male	Corpsmen	17.9959514	1	•	1.256022 0.2115	2.363648 0.0196	0.96417 0.3368
Male	Nurses	16.2142857	2	-1.25602 0.2115	•	0.81306 0.4177	-0.60475 0.5464
Female	Corpsmen	14.8125000	3	-2.36365 0.0196	-0.81306 0.4177	•	-1.66417 0.0986
Female	Nurses	17.0817469	4	-0.96417 0.3368	0.60475 0.5464	1.664171 0.0986	•

Perceived Social Support - Friend 13:06 Friday, August 11, 1995 13

Sex	Occupatio	n PSFSCOT1 Lsmean			Lsmean(i)=Ls 1 2	smean(j) /	Pr > T 4
Male	Corpsmen	14.2945344	1	•	-3.02622 0.0030	-0.74695 0.4565	-4.78833 0.0001
Male	Nurses	17.5714286	2	3.02621 0.003	.9	1.90632 0.0589	-0.17254 0.8633

Female Corpsmen 15.0625000 3 0.746953 -1.90632 . -2.5918 0.4565 0.0589 0.0107
Female Nurses 17.7603583 4 4.788325 0.172541 2.591803 0.0001 0.8633 0.0107

Table B.107: Least square means, t-tests and p-values for Ways of Coping subscales by sex, occupation and sex by occupation interactions for nurses and corpsmen, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test	P-value
Sex Effects				
Confrontive Coping	Males Females	1.06231146 0.95506183	1.022787	0.3080
Distancing	Males Females	1.22596154 1.19140063	0.337064	0.7365
Self Control	Males Females	1.32255979 1.43442623	-1.04637	0.2970
Seeking Social Support	Males Females	1.27865762 1.34332758	-0.6031	0.5473
Accepting Responsibility	Males Females	0.94244910 0.80888697	0.981084	0.3281
Escape Avoidance	Males Females	1.07593326 1.21861519	-1.31342	0.1910
Planful Problem Solving	Males Females	1.56447964 1.38654012	1.631201	0.1049
Positive Reappraisal	Males Females	1.38671622 1.41507457	-0.23972	0.8109
Occupation Effects				
Confrontive Coping	Corpsmen Nurses	1.13822239 0.87915090	2.470639	0.0146
Distancing	Corpsmen Nurses	1.31469298 1.10266919	2.067815	0.0403
Self Control	Corpsmen Nurses	1.41596639 1.34101964	0.701032	0.4843
Seeking Social	Corpsmen Nurses	1.28844169 1.33354351	-0.42061	0.6746
Accepting	Corpsmen	0.99912926	1.813775	0.0716

Responsibility		Nurses	0.75220681		
Escape Avoidance		Corpsmen Nurses	1.28241099 2.487936 0.0139 1.01213745		
Planful Problem Solving		Corpsmen Nurses	1.41434469 -1.12142 0.2638 1.53667507		
Positive Reappraisal		Corpsmen Nurses	1.38555949 -0.25928 0.7958 1.41623131		
Sex by Occupation Interaction					
Confrontive Coping					
Sex	Occupation	MCONFCT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > Ti/j 1 2 3	4	
Male	Corpsmen 1	.18872549	1 . 1.596299 0.743918 3.9700 0.1124 0.4580 0.00		
Male	Nurses 0	.93589744	2 -1.59630.80614 0.7100	61	
Female	Corpsmen 1	.08771930	3 -0.74392 0.806145 . 1.9300	29	
Female	Nurses (.82240437	0.4580 0.4214 0.05 4 -3.97001 -0.71006 -1.93003 . 0.0001 0.4787 0.0554	54	
Distancing					
Sex	Occupation	MDISTT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > Ti/j 1 2 3	4	
Male	Corpsmen 1	37500000	1 . 1.924664 0.908474 2.7329 0.0561 0.3650 0.00		
Male	Nurses 1	.07692308	2 -1.924660.96366 -0.329	46	
Female	Corpsmen 1	.25438596	0.0561 0.3367 0.74 3 -0.90847 0.96366 . 0.937	15	
Female	Nurses 1	12841530	0.3650 0.3367 0.35 4 -2.73296 0.329462 -0.93715 0.0070 0.7422 0.3501	01	
Self Control					
Sex	Occupation	MSELCT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > Ti/j 1 2 3	4	
Male	Corpsmen 1	.40336134	1 . 1.00077 -0.18212 -0.392 0.3185 0.8557 0.69		
Male	Nurses 1	24175824	2 -1.000770.97293 -1.218 0.3185 0.3321 0.22	24	

```
-0.08355
                                               0.972931
                                    0.182116
                   1.42857143
Female
        Corpsmen
                                                                       0.9335
                                                 0.3321
                                      0.8557
                                                          0.083549
                                               1.218238
                                    0.392449
                   1.44028103
        Nurses
Female
                                                            0.9335
                                      0.6953
                                                 0.2250
Seeking Social Support
                                 T for HO: Lsmean(i)=Lsmean(j) / Pr > |T|
        Occupation
                      MSESST1
Sex
                                 i/j
                       Lsmean
                                                          0.364206
                                                                     -1.16337
                                               0.433038
                   1.31372549
                                 1
        Corpsmen
Male
                                                            0.7162
                                                                       0.2464
                                                 0.6656
                                                                     -1.10071
                                                          -0.10161
                                    -0.43304
                   1.24358974
        Nurses
Male
                                                                       0.2727
                                                            0.9192
                                       0.6656
                                                                     -1.14062
                                               0.101608
                                    -0.36421
                   1.26315789
        Corpsmen
Female
                                                                       0.2558
                                                 0.9192
                                       0.7162
                                                          1.140616
                                               1.100709
                                     1.16337
                                 4
                   1.42349727
        Nurses
Female
                                                            0.2558
                                                 0.2727
                                       0.2464
Accepting Responsibility
                                 T for HO: Lsmean(i)=Lsmean(j) / Pr > |T|
                      MACRET1
        Occupation
Sex
                                            1
                       Lsmean
                                 i/j
                                                                     3.176144
                                                          0.885852
                                               1.310699
                   1.07720588
                                 1
Male
        Corpsmen
                                                                       0.0018
                                                            0.3771
                                                 0.1919
                                                          -0.46363
                                                                     0.534772
                                      -1.3107
                   0.80769231
Male
        Nurses
                                                                       0.5936
                                                            0.6436
                                       0.1919
                                                                     1.256971
                                               0.463632
                   0.92105263
                                    -0.88585
Female
        Corpsmen
                                                                       0.2106
                                       0.3771
                                                 0.6436
                                               -0.53477
                                                          -1.25697
                                     -3.17614
Female
        Nurses
                   0.69672131
                                                            0.2106
                                                 0.5936
                                       0.0018
Escape-avoidance
                                 T for HO: Lsmean(i)=Lsmean(j) / Pr > |T|
                      MESAVT1
        Occupation
Sex
                                            1
                                 i/j
                       Lsmean
                                               1.628751
                                                          ∹1.03585
                                                                     1.334744
                   1.20955882
        Corpsmen
Male
                                                  0.1054
                                                            0.3019
                                                                       0.1839
                                                                     -0.84342
                                                          -2.11655
                                     -1.62875
                   0.94230769
Male
        Nurses
                                                                       0.4003
                                                            0.0359
                                       0.1054
                                                                     1.919028
                                               2.116548
                   1.35526316
                                     1.035847
        Corpsmen
Female
                                                                       0.0568
                                       0.3019
                                                  0.0359
                                     -1.33474
                                               0.843418
                                                          -1.91903
                   1.08196721
Female
        Nurses
                                                  0.4003
                                                            0.0568
                                       0.1839
Planful Problem Solving
                                 T for HO: Lsmean(i)=Lsmean(j)
                                                                  / Pr >
                     MPLPRST1
        Occupation
Sex
                                 i/i
                                            1
                        Lsmean
```

Male	Corpsmen	1.53921569	1	•	-0.30667 0.7595	1.768129 0.0790	0.579324 0.5632			
Male	Nurses	1.58974359	2	0.306666 0.7595	•	1.532625 0.1274	0.63832 0.5242			
Female	Corpsmen	1.28947368	3	-1.76813 0.0790	-1.53263 0.1274	•	-1.35752 0.1766			
Female	Nurses	1.48360656	4	-0.57932 0.5632	-0.63832 0.5242	1.357521 0.1766	•			
Positiv	Positive Reappraisal									
Sex	Occupatio	n MPORET1 Lsmean	T i/	for H0: Ls j 1	mean(i)=Ls 2	mean(j) /	Pr > T 4			
Male	Corpsmen	1.43277311	1	•	0.515524 0.6069	0.616467 0.5385	-0.56707 0.5715			
Male	Nurses	1.34065934	2	-0.51552 0.6069	•	0.010889 0.9913	-0.83821 0.4032			
Female	Corpsmen	1.33834586	3	-0.61647 0.5385	-0.01089 0.9913	•	-0.98952 0.3239			
Female	Nurses	1.49180328	4	0.567074	0.838209	0.989522	•			

0.5715

0.4032

0.3239

Table B.108: Least square means, t-tests and p-values for stressors by sex, age and sex by age interaction for all respondents, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test	P-value
Sex Effects				
Injury Factor	Males Females	2.67953431 3.31158088	-3.36564	0.0009
Work demands Factor	Males Females	3.92385621 5.10318627	-6.01205	0.0001
Heat Stress	Males Females	5.02892157 5.14191176	-0.49658	0.6200
Separation from Family	Males Females	5.65686275 5.81838235	-0.80543	0.4214
Age Effects				
Injury Factor	Younger Older	3.05974265 2.93137255	0.68356	9 0.4949
Work demands Factor	Younger Older	4.83357843 4.19346405	3.2632	0.0013
Heat Stress	Younger Older	4.83308824 5.33774510	-2.217	93 0.0275
Separation from Family	Younger Older	5.68602941 5.78921569	-0.514	
Sex by Age In	nteraction	ıs		ì

Sow of --2- Triper and

Injury Factor

Sex	Age	MINJSTS Lsmean	T :	for HO: Ls j 1	mean(i)=Ls	mean(j) /	Pr > T ₄
Male	Younger	2.65073529	1	•	-0.23083 0.8177	-2.91401 0.0039	-2.08472 0.0382
Male	Older	2.70833333	2	0.230829 0.8177	•	-2.64432 0.0087	-1.7877 0.0751
Female	Younger	3.46875000	3	2.914009 0.0039	2.644323 0.0087	•	1.119765 0.2640

0.0382 0.0751 0.2640 Trauma-related work demands factor T for H0: Lsmean(i)=Lsmean(j) / Pr > |T|MWRKSTS Sex Age i/j Lsmean 1.675082 Male Younger 4.14215686 -4.71597-2.13662 0.0953 0.0001 0.0337 3.70555556 -1.67508-6.05718 -3.74386Male Older 0.0953 0.0001 0.0002 6.057179 2.877062 Female Younger 5.52500000 4.715975 0.0001 0.0044 0.0001 3.743859 -2.87706 Female Older 4.68137255 2.136623 0.0002 0.0044 0.0337 **Heat Stress** T for H0: Lsmean(i)=Lsmean(j) / Pr > |T|Sex HEASTRT1 Age i/j 1 Lsmean -2.23427 -0.83447Male Younger 4.69117647 -2.109940.0264 0.4049 0.0359 Male Older 5.36666667 2.234266 1.124121 0.191323 0.0264 0.8484 0.2621 4.97500000 0.834472 -1.12412-0.98148Female Younger 0.4049 0.2621 0.3274 2.109942 Female Older 5.30882353 -0.19132 0.981477 0.8484 0.0359 0.3274 Separation from Family T for HO: Lsmean(i)=Lsmean(j) / Pr > |T| Sex Age SFMSTRT1 Lsmean 1 5.39705882 -1.95003 Male Younger -1.92795 -1.02599 0.0524 0.0551 0.3060 5.91666667 1.950029 -0.18996 Male Older 0.956618 0.0524 0.8495 0.3398 Female Younger 5.97500000 1.927953 0.18996 1.044921 0.0551 0.8495 0.2971

Female Older

Female

Older

5.66176471

4

1.02599

0.3060

-0.95662

0.3398

-1.04492

0.2971

3.15441176

2.084723 1.787696

-1.11977

Table B.109: Least square means, t-tests and p-values for stresss reducers by sex, age and sex by age interactions for all respondents, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test P-	value
Sex Effects				
Gym	Males Females	5.21130952 4.69448276	1.80559	0.0726
Movies	Males Females	4.69742063 3.87000000	3.39242	0.0008
Eating	Males Females	3.38260582 3.63241379	-0.95611	0.3403
Weather Decks	Males Females	4.64120370 5.27344828	-2.58386	0.0105
Lounges	Males Females	3.71097884 3.49310345	0.844551	0.3995
Reading	Males Females	4.64021164 4.92000000	-1.0735	0.2844
Time Alone	Males Females	5.49140212 5.57689655	-0.32779	0.7434
Library	Males Females	3.55555556 3.09448276	1.857212	0.0649
With Friends	Males Females	5.76091270 5.68000000	0.401418	0.6886
Reading Mail	Males Females	6.41137566 6.15620690	1.430871	0.1542
Writing Mail	Males Females	5.65509259 5.32241379	1.465292	0.1445
Age Effects				
Gym	Younger Older	5.07912562 4.82666667	0.881993	0.3789
Movies	Younger Older	4.41964286 4.14777778	1.114645	0.2664
Eating	Younger Older	3.34205665 3.67296296	-1.2665	0.2069

Weather Decks	Younger Older	4.79094828 5.12370370	-1.3599	0.1755
Lounges	Younger Older	3.84667488 3.35740741	1.896549	0.0594
Reading	Younger Older	4.71428571 4.84592593	-0.50508	0.6141
Time Alone	Younger Older	5.43903941 5.62925926	-0.7293	0.4667
Library	Younger Older	3.28448276 3.36555556	-0.32656	0.7444
With Friends	Younger Older	5.95535714 5.48555556	2.330745	0.0208
Reading Mail	Younger Older	6.22906404 6.33851852	-0.61377	0.5401
Writing Mail	Younger Older	5.48491379 5.49259259	-0.03382	0.9731

Sex by Age Interactions

G	V	m

Sex	Age	GYMSTRT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > i/j	T 4
Male	Younger	5.08928571	10.67375 0.046767 2.08	
Male	Older	5.33333333	2 0.673745 . 0.604633 2.71	0387 8593 0072
Female	Younger	5.06896552	3 -0.04677 -0.60463 . 1.68	
Female	Older	4.32000000	4 -2.08181 -2.71859 -1.6895 . 0.0387 0.0072 0.0928	0928
Movies				
Sex	Age	MOVSTRT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > i/j	T 4
Male	Younger	4.83928571	1 0.919255 2.266884 3.49 0.3592 0.0246 0.	1182 0006
Male	Older	4.5555556	2 -0.91925 . 1.491146 2.56	
Female	Younger	4.00000000	3 -2.26688 -1.49115 . 0.68	
Female	Older	3.74000000	4 -3.49118 -2.56776 -0.6883 . 0.0006 0.0110 0.4921	472I

Eating							
G - • •	3.00	EATSTRT1	T	for HO: Ls	mean(i)=Ls		Pr > T
Sex	Age	Lsmean	i/		2	3	4
•		• • • • • • • • • • • • • • • • • • • •	1		-0.26204	-0.01397	-1.72164
Male	Younger	3.33928571	Τ.	•	0.7936	0.9889	0.0868
Male	Older	3.42592593	2	0.26204	•	0.203199	-1.45215
Mare	Oldol			0.7936	0 2022	0.8392	0.1482 -1.42142 ●
Female	Younger	3.34482759	3	0.013973 0.9889	-0.2032 0.8392	•	0.1569
	Older	3.92000000	4	1.721636	1.452145	1.421416	•
Female	Oldel	5.7200000		0.0868	0.1482	0.1569	
Weather	Decks						•
Sex	Age	WDSTRT1	T		mean(i)=Ls	mean(j) /	$Pr > T _{A}$
DCX	••9-	Lsmean	i/	j 1	2	3	4
		4 0750000	1		-1.71939	-2.23969	-3.05485
Male	Younger	4.37500000	_	•	0.0872	0.0263	0.0026
Male	Older	4.90740741	2	1.719391	•	-0.80126	-1.35763
male	Oldel	4.50,10.32		0.0872		0.4240	0.1762 -0.35123
Female	Younger	5.20689655	3	2.239695	0.801261	•	0.7258
	-	~ ~	4	0.0263 3.054846	0.4240 1.357626	0.351233	•
Female	Older	5.34000000	4	0.0026	0.1762	0.7258	
							•
Lounges	;						
Sex	Age	LNGSTRT1	T		smean(i)=Ls	mean(j) /	Pr > T
DEX		Lsmean	i/	'j 1	2	3	4
_		4.10714286	1		2.427	1.330265	2.123262
Male	Younger	4.10/14200		•	0.0162	0.1851	0.0351
Male	Older	3.31481481	2	-2.427	•	-0.68869	-0.25357
11410	• • • • • • • • • • • • • • • • • • • •			0.0162	0 (00(01	0.4919	0.8001 0.466054
Female	Younger	3.58620690	3	-1.33027 0.1851	0.688691 0.4919	•	0.6417
		2 40000000	4	-2.12326	0.253571	-0.46605	
Female	Older	3.40000000	-4	0.0351	0.8001	0.6417	•
					•		
Reading	J						
0	3	REASTRT1	т	for HO: Ls	smean(i)=L	smean(j) /	Pr > T
Sex	Age	Lsmean		/j 1	2	3	4
					-1.28336	-1.44435	-1.22277
Male	Younger	4.42857143	1	•	0.2010	0.1503	
3.0 - 3 .	0146	4.85185185	2	1.283359	•	-0.37212	0.03492
Male	Older	4.00100100	2	0.2010		0.7102	
Female	Younger	5.00000000	3	1.444345		•	0.396384 0.6923
				0.1503	0.7102	0 20638	

4 1.222774

4.84000000

0.7102 -0.03492

-0.39638

Female Older

Time	Ald	one
Sov		7 ~

Sex	Age	TASTRT1 Lsmean	T for HO: Lsmean(i)=Lsmean(j) / i/j 1 2 3	Pr > T 4
Male	Younger	5.46428571	10.16431 0.127531 0.8697 0.8987	
Male	Older	5.51851852	2 0.164309 . 0.262854 0.8697 0.7930	-0.65209
Female	Younger	5.41379310	3 -0.12753 -0.26285 . 0.8987 0.7930	-0.80755 0.4204
Female	Older	5.74000000	4 0.818825 0.652091 0.80755 0.4139 0.5152 0.4204	•
Library				
Sex	Age	LIBSTRT1 Lsmean	T for HO: Lsmean(i)=Lsmean(j) / i/j 1 2 3	Pr > T 4
Male	Younger	3.50000000	10.35367 1.143774 0.7240 0.2542	
Male	Older	3.61111111	2 0.353669 . 1.429609 0.7240 0.1545	1.519111
Female	Younger	3.06896552	3 -1.14377 -1.42961 .	-0.13273 0.8945
Female	Older	3.12000000	0.2542 0.1545 4 -1.18564 -1.51911 0.132733 0.2373 0.1304 0.8945	•
With Fr	iends			
With Fr	iends Age	SFSTRT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / i/j 1 2 3	Pr > T
			i/j 1 2 3 1 . 1.174556 -0.29181	Pr > T 4 2.11634
Sex	Age	Lsmean	i/j 1 2 3 1 . 1.174556 -0.29181	Pr > T 4 2.11634 0.0357 0.956674
Sex	Age Younger	Lsmean 5.91071429	i/j 1 2 3 1 . 1.174556 -0.29181	Pr > T 4 2.11634 0.0357 0.956674 0.3400 2.050139
Sex Male Male	Age Younger Older Younger	Lsmean 5.91071429 5.61111111	i/j 1 2 3 1 . 1.174556 -0.29181 0.2417 0.7708 2 -1.174561.26303 0.2417 0.2082	Pr > T 4 2.11634 0.0357 0.956674 0.3400 2.050139 0.0418
Sex Male Male Female	Age Younger Older Younger Older	Lsmean 5.91071429 5.61111111 6.00000000	i/j 1 2 3 1 . 1.174556 -0.29181	Pr > T 4 2.11634 0.0357 0.956674 0.3400 2.050139 0.0418
Sex Male Male Female Female	Age Younger Older Younger Older	Lsmean 5.91071429 5.61111111 6.00000000	i/j 1 2 3 1 . 1.174556 -0.29181	Pr > T 4 2.11634 0.0357 0.956674 0.3400 2.050139 0.0418
Sex Male Male Female Female Reading	Age Younger Older Younger Older Mail Age	Lsmean 5.91071429 5.61111111 6.00000000 5.36000000	i/j 1 2 3 1 . 1.174556 -0.29181	Pr > T 4 2.11634 0.0357 0.956674 0.3400 2.050139 0.0418
Sex Male Male Female Female Reading Sex	Age Younger Older Younger Older Mail Age	Lsmean 5.91071429 5.61111111 6.00000000 5.36000000 RMSTRT1 Lsmean	<pre>i/j 1 2 3 1</pre>	Pr > T 4 2.11634 0.0357 0.956674 0.3400 2.050139 0.0418 . Pr > T 4 0.632927 0.5276 1.709707

Female	Older	6.14000000	4	0.6760 -0.63293 0.5276	0.1824 -1.70971 0.0890	-0.11736 0.9067	0.9067	
Writing	Mail							
Sex	Age	WMSTRT1 Lsmean	T i/	for HO: Ls	mean(i)=Ls 2	mean(j) /	Pr > T 4	
Male	Younger	5.62500000	1	•	-0.20948 0.8343	0.812944 0.4173	1.10882	•
Male	Older	5.68518519	2	0.209477	•	0.981396 0.3277	0.1943	
Female	Younger	5.34482759	3	-0.81294 0.4173	-0.9814 0.3277	•	0.127487 0.8987	
Female	Older	5.3000000	4	-1.10882 0.2689	-1.30283 0.1943	-0.12749 0.8987	•	(

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Table B.110: Least square means, t-tests and p-values for social field stress by sex, age, and sex by age interactions for all respondents, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test P-	value
Sex Effects				
Self	Males Females	4.96159754 5.93964077	-4.92894	0.0001
Significant Others	Males Females	6.78225806 6.53320802	1.595891	0.1119
Child	Males Females	6.70622120 7.52965748	-3.74991	0.0002
Supervisor	Males Females	4.71390169 5.63116124	-3.62054	0.0004
Coworkers	Males Females	4.81810036 5.58333333	-3.21131	0.0015
Age Effects				
Self	Younger Older	5.28884712 5.61239119	-1.63053	0.1044
Significant Others	Younger Older	6.72368421 6.59178187	0.845219	0.3989
Child	Younger Older	7.60902256 6.62685612	4.472759	0.0001
Supervisor	Younger Older	4.94862155 5.39644137	-1.7676	0.0785
Coworker	Younger Older	5.02777778 5.37365591	-1.45148	0.1481

Sex by Age Interactions

Self

Sex	Age				smean(i)=Ls . 2		Pr > T 4
Male	Younger	4.76190476	1	•	-1.5323 0.1269	-3.52156 0.0005	-5.01382 0.0001
Male	Older	5.16129032	2	1.532301 0.1269		-2.18041 0.0303	-3.46143 0.0 006

Female	Younger	5.81578947	3 3.52156 2.180406 · -0.8277 0.0005 0.0303 0.4087							
Female	Older	6.06349206	4 5.013825 3.461428 0.827699 . 0.0001 0.0006 0.4087	•						
Signifi	cant Others									
Sex	Age	STSSOT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4							
Male	Younger	7.00000000	1 . 2.124443 2.348004 1.865898 0.0347 0.0198 0.0634							
Male	Older	6.56451613	2 -2.12444 . 0.49623 -0.26602 0.0347 0.6202 0.7905							
Female	Younger	6.44736842	3 -2.348 -0.49623 · -0.72943 0.0198 0.6202 0.4665	_						
Female	Older	6.61904762	4 -1.8659 0.266024 0.729425 · 0.0634 0.7905 0.4665							
Child										
Sex	Age	STCHLDT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4	•						
Male	Younger	7.42857143	1 . 5.008694 -1.08975 0.552523 0.0001 0.2770 0.5811							
Male	Older	5.98387097	2 -5.008695.43557 -4.45839 0.0001 0.0001 0.0001	_						
Female	Younger	7.78947368	3 1.089749 5.435574 . 1.569037 0.2770 0.0001 0.1181							
Female	Older	7.26984127	4 -0.55252 4.458385 -1.56904 0.5811 0.0001 0.1181							
Supervi	sor			•						
Sex	Age	STSUPT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4							
Male	Younger	4.47619048	1 · -1.42862 -2.47284 -4.11851 0.1545 0.0142 0.0001							
Male	Older	4.95161290	2 1.4286221.22488 -2.67338							
Female	Younger	5.42105263	0.1545 0.2219 0.0081 3 2.472843 1.224882 -1.09977 0.0142 0.2219 0.2726							
Female	Older	5.84126984	4 4.118507 2.673378 1.09977 . 0.0001 0.0081 0.2726	•						
Coworker										
Sex	Age	STCOWT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3 4							
Male	Younger	4.5555556	1 -1.67756 -2.62791 -3.56407 0.0948 0.0092 0.0004							

Male	Older	5.08064516	2	1.677558 0.0948	•	-1.16333 0.2459	0.0625
Female	Younger	5.50000000	3	2.627912	1.163329 0.2459	•	-0.46375 0.6433
Female	Older	5.6666667	4	3.564067	1.872224	0.463749 0.6433	•

i

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Table B.111: Least square means, t-tests and p-values for perceived social support by sex, age and sex by age interactions for all respondents, Comfort study, time 1.

LOOP	•								•
Construct	t	Subgroup	Ls	mea	ins	Т-	test	P-value	
Sex Effe	cts								•
Perceived Support Significa	d Social - Spouse/ ant Other	Males Females	17.6 16.6			1.3	21657	0.1881	
Perceive Support	d Social - Friend	Males Females	14.9 17.1	482 .576	2656 5670	-3.	. 68647	0.0003	•
Support	cts d Social - Spouse ant Other	Younger Older			31409 58128	-(0.08533	0.9321	•
Support	d Social \ - Friend (Older			0399 8926	-0	.75727	0.4500	•
		Support -	Spous	se/	Signifi	cant	Others		
	Age	PSSCOR Lsme	T1		for H0:		an(i)=Ls 2	mean(j) / 3	Pr > T 4
Male	Younger	17.75789	47	1	•	0	.182246 0.8556	1.087172	0.3808
Male	Older	17.58181	.82	2	-0.1822 0.855		•	0.989698	
Female	Younger	16.54838	71	3	-1.0871	7	-0.9897 0.3238	•	-0.27239 0.7857
Female	Older	16.84980	74	4	0.278 -0.8788 0.380	5 -	0.76307	0.272388 0.7857	•
Perceive	ed Social	Support -	Frie	nd					
Sex	Age	PSFSCO Lsme	T1			Lsme 1	ean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Younger	14.33289	947	1	•		-1.56118 0.1204	0.0012	0.0019
Male	Older	15.56363	364	2	1.56118	31	•	-2.06045	, -I.03003

Older

Male

				;			
			•	0.1204	2.060453	- 0.0409	0.0691 0.357762
Female	Younger	17.3191851	3	3.289656 0.0012	0.0409	•	0.7210
Female	Older	16.9961489	4	3.158849	1.830092	-0.35776 0.7210	•

Table B.112: Least square means, t-tests and p-values for SCL-90 subscales by sex, age and sex by age interactions for all respondents, Comfort study, time 1.

Construct	Subgrou	p Lsmeans	T-test	P-value
Sex Effects				
Somatization	Males Females	0.42285692 0.54645713	-1.6239	0.1058
Depression	Males Females	0.85745240 1.11920744	-2.62397	0.0093
Anxiety	Males Females	0.51498542 0.77750207	-2.87114	0.0045
Hostility	Males Females	0.82829871 0.75947753	0.654166	0.5137
Age Effects				
Somatization	Younger Older	0.62942389 0.33989015	3.804001	0.0002
Depression	Younger Older	1.18739396 0.78926589	3.991042	0.0001
Anxiety	Younger Older	0.80913289 0.48335460	3.563034	0.0005
Hostility	Younger Older	1.06055280 0.52722344	5.069459	0.0001

Sex by Age Interaction

Somatization

Sex	Age	SOMT1 Lsmean	T fo i/j	r HO: Ls	mean(i)=Ls 2	mean(j) /	Pr > T 4
Male	Younger	0.51661779	1	•	1.853032 0.0652	-1.98396 0.0485	1.660417
Male	Older	0.32909605	2 -	1.85303	•	-3.59781 0.0004	-0.21333 0.8313
Female	Younger	0.74222999	3 1	.983957	3.597811 0.0004	•	3.44312 0.0007
Female	Older	0.35068426	4 -	1.66042	0.213328 0.8313	-3.44312 0.0007	•

Depression

Sex	Age	DEPT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3
Male	Younger	1.02781224	1 . 2.568921 -2.14143 1.04119 0.0109 0.0333 0.298
Male	Older	0.68709257	2 -2.568924.38467 -1.5407 0.0109 0.0001 0.124
Female	Younger	1.34697567	3 2.141435 4.384667 . 3.05643 0.0333 0.0001 0.002
Female	Older	0.89143921	4 -1.0412 1.54071 -3.05643 . 0.2989 0.1248 0.0025
Anxiety			
Sex	Age	ANXT1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1 2 3
Male	Younger	0.64390681	1 . 2.12101 -2.41899 0.52696 0.0351 0.0164 0.598
Male	Older	0.38606403	2 -2.121014.2648 -1.6006 0.0351 0.0001 0.110
Female	Younger	0.97435897	3 2.418993 4.264803 . 2.88208 0.0164 0.0001 0.004
Female	Older	0.58064516	4 -0.52696 1.600621 -2.88208 . 0.5988 0.1109 0.0043
Hostili	ty		
Sex	Age	HOST1 Lsmean	T for H0: Lsmean(i)=Lsmean(j) / Pr > T i/j 1. 2 3
Male	Younger	1.14247312	1 . 4.492178 1.042356 4.35926 0.0001 0.2984 0.000
Male	Older	0.51412429	2 -4.492182.92661 -0.187 0.0001 0.0038 0.851
Female	Younger	0.97863248	3 -1.04236 2.926615 . 2.78853 0.2984 0.0038 0.005
Female	Older	0.54032258	4 -4.35926 0.187296 -2.78853 . 0.0001 0.8516 0.0058
			√ · · · · · · · · · · · · · · · · · ·

Table B.113: Least square means, t-tests and p-values for Ways of Coping subscales by sex, age and sex by age interactions for all respondents, Comfort study, time 1.

Construct	Subgroup	Lsmeans	T-test	P-value
Sex Effects				
Confrontive	Males Females	1.10190918 0.92550444	2.281203	0.0236
Distancing	Males Females	1.26590987 1.15100888	1.597645	0.1117
Self Control	Males Females	1.39842253 1.43576617	-0.4893	0.6252
Seeking Social Support	Males Females	1.30065359 1.36928975	-0.89121	0.3739
Accepting Responsibility	Males Females	1.01870485 0.77802663	2.506637	0.0130
Escape Avoidance	Males Females	1.06153251 1.17424334	-1.38107	0.1688
Planful Problem Solving	Males Females	1.59545924 1.43579500	1.962634	0.0511
Positive Reappraisal	Males Females	1.41972579 1.46962989	-0.57695	0.5646
Age Effects				
Confrontive Coping	Younger Older	1.11139122 0.91602240	2.526439	0.0123
Distancing	Younger Older	1.22376284 1.19315591	0.425575	0.6709
Self	Younger	1.43365346	0.433932	0.6648

Control	Older	1.4005	53524	•	-	
Seeking Social Support	Younger Older	1.4133 1.2565		2.035474	0.0431	
Accepting Responsibility	Younger Older	0.9497 0.8470		1.069695	0.2861	
Escape Avoidance	Younger Older	1.2655 0.970		3.617717	0.0004	
Planful Problem Solving	Younger Older	1.4608 1.5704		-1.34714	0.1795	
Positive Reappraisal	Younger Older	1.4901 1.3992		1.050644	0.2947	
Sex by Age Int	eraction					
Confrontive Co	ping					
Sex Age	MCONFC Lsme			smean(i)=Ls 2	smean(j) /	Pr > T 4
Male Younge	r 1.241830	07 1	•	2.699148	2.209584	3.614905 0.0004
11-1- 01-dam	0.961988	30 2	-2.69915	0.0076	0.0283 -0.16418	0.920246
Male Older	0.901900	J0 2	0.0076		0.8698	0.3586
Female Younge	er 0.980952	38 3	-2.20958		•	0.966307 0.3351
m 1 01 3	0.870056	50 4	0.0283 -3.6149		-0.96631	•
Female Older	0.870056	50 4	0.0004		0.3351	
Distancing						
Dibcanoing			, .	/ 		Pr > T
Sex Age	MDIST Lsme			smean(i)=Ls 2	smean(j) / 3	4
Male Younge	er 1.385620	92 1	•	2.483027 0.0139	2.948091 0.0036	1.521276 0.1298
Male Older	1.146198	883 2	-2.48303		0.784659	-1.01082
naio viii			0.0139		0.4336	0.3133 -1.66967
Female Younge	er 1.061904	76 3	-2.94809 0.0036		•	0.0966
Female Older	1.240112	99 4	-1.52128 0.1298	1.010816	1.669669 0.0966	•
			0.1290	, 0.3133	0.3200	

Self Control

Sex	Age	MSELCT1 Lsmean	T f		mean(i)=Lsi 2	mean(j) / 3	Pr > T 4	
Male	Younger	1.45098039	1	•	1.027267 0.3055	0.29739 0.7665	-0.04163 • 0.9668	
Male	Older	1.34586466	2	-1.02727 0.3055	•	-0.61807 0.5372	-1.10898 0.2688	
Female	Younger	1.41632653	3	-0.29739 0.7665	0.618069 0.5372	•	-0.34326 0.7318	
Female	Older	1.45520581	4	0.041628 0.9668	1.108978 0.2688	0.343257 0.7318	. •	
Seeking	Social Sup	pport						
Sex	Age	MSESST1 Lsmean	T :		smean(i)=Ls 2	mean(j) / 3	Pr > {T} 4 ●	
Male	Younger	1.37908497	1	•	1.519179 0.1303	-0.58285 0.5607	0.860379 0.3906	
Male	Older	1.2222222	2	-1.51918 0.1303	•	-1.95931 0.0515	-0.69089 0.4904	
Female	Younger	1.44761905	3	0.582848	1.959313 0.0515	•	1.370657 • 0.1720	
Female	Older	1.29096045	4	-0.86038 0.3906	0.690894 0.4904	-1.37066 0.1720	•	
Accepting Responsibility								
Cov	Nge	MACRET1	т	for HO: L	smean(i)=Ls		Pr > T	
Sex	Age	Lsmean	i/			3	4	
Male	Younger	1.06372549	1	•	0.69945 0.4851	1.555359 0.1215	2.689073 0.0078 ●	
Male	Older	0.97368421	2	-0.69945 0.4851		0.961981 0.3372	2.042452	
Female	Younger	0.83571429	3	-1.55536 0.1215	0.3372	•	0.80968 0.4191	
Female	Older	0.72033898	4	-2.68907 0.0078	-2.04245	-0.80968 0.4191	•	
Escape	Avoidance			v *				
Sex	Age	MESAVT1 Lsmean	T i/		smean(i)=Ls	smean(j) / 3	Pr > T 4	
Male	Younger	1.25245098	1	·	3.489702 0.0006	-0.20963 0.8342	1.681753	
Male	Older	0.87061404	2	-3.4897 0.0006	•	-3.34651 0.0010	0.0602	
Female	Younger	1.27857143	3	0.209628	3.346509	• .•	1.722769 0.0865	
Female	Older	1.06991525	4	-1.68175			•	

Planful Problem Solving

Sex	Age	MPLPRST1 Lsmean	T i/		mean(i)=Ls	mean(j) /	Pr > T
		LSmedii	+/	٠ ب	2	3	4
Male	Younger	1.53594771	1	•	-1.09125	1.209534	0.462798
	_				0.2765	0.2279	0.6440
Male	Older	1.65497076	2	1.091248	•	2.215774	1.608967
				0.2765		0.0278	0.1092
Female	Younger	1.38571429	3	-1.20953	-2.21577	•	-0.82962
	_			0.2279	0.0278		0.4078
Female	Older	1.48587571	4	-0.4628	-1.60897	0.829618	•
				0.6440	0.1092	0.4078	

Positive Reappraisal

Sex	Age	MPORET1 Lsmean	T i/		smean(i)=Ls 2	mean(j) /	Pr > T 4
			•			0.400455	0.056150
Male	Younger	1.49859944	1	•	1.360276	0.128477	0.356172
					0.1753	0.8979	0.7221
Male	Older	1.34085213	2	-1.36028	•	-1.08962	-1.04505
				0.1753		0.2772	0.2973
Female	Younger	1.48163265	3	-0.12848	1.089618	•	0.187009
	-			0.8979	0.2772		0.8518
Female	Older	1.45762712	4	-0.35617	1.045054	-0.18701	•
				0.7221	0.2973	0.8518	

Chapter 2

DISASTER-RELATED RELOCATION:

MILITARY WOMEN & MEN IN THE WAKE

OF HURRICANE ANDREW

Carol S. Fullerton, Robert J. Ursano & Leming Wang

Chapter 2

DISASTER-RELATED RELOCATION: MILITARY WOMEN & MEN IN THE WAKE OF HURRICANE ANDREW

Carol S. Fullerton, Robert J. Ursano & Leming Wang

approximately August 13, 1990. It grew in intensity, being classified as a tropical he storm on Monday, August 17. Andrew reached hurricane strength on Saturday, August 22. By Sunday, August 23, Andrew's winds were clocked up to 150 miles per hour. Andrew touched shore on the Bahamas Sunday night, killing four people. Hurricane Andrew hit the coast of Florida at approximately 5:00 a.m. on Monday, August 24th. Hurricane Andrew reached sustained winds of 145 mph with gusts of 175-200 mph. Because of advanced warning, most people evacuated; 48 individuals were killed by Andrew, however. Property damage has been estimated to be 30 billion dollars. The American Red Cross estimated that 30,000 families were affected were directly affected by Andrew.

he military has a strong interest in the effects of trauma and disaster on individuals and groups. Historically, a great deal of what has been learned about human responses to traumatic situations has derived from studies of combat veterans. As the military's mission has been reevaluated, suggestions have been made that the military play an expanded role in disaster relief. Several experts testified to a Senate subcommittee that the Department of Defense should be given a greater role in the government's handling of natural catastrophes, taking over some of the Federal Emergency Management Agency's (FEMA) functions (Washington Post, Thursday, January 28, 1993, pg. A19). Military units have deployed to assist in relief efforts following Hurricane Andrew and for wartorn Somalia. The UN General Assembly Resolution 42/169, adopted on 11 December 1987, designated the 1990s as a decade for natural disaster reduction (WHO, 1992).

Natural disasters are common, costly, and traumatic. In the United States alone, 531 major natural disasters occurred during 1965-1985 (Rubin, Yezer, Hussain, & Webb, 1986). Although the costs are difficult to estimate, they include property losses, disaster relief, lost income, and health care costs. Direct federal

The 1990s:

A DECADE for the REDUCTION of NATURAL DISASTERS.

World Health Organization (1992)

assistance from the Federal Emergency Management Agency (FEMA) was over \$6 billion between 1965 and 1985. It is estimated that in the year 2000 over 1,700 deaths will occur in the United States due to major disasters alone and property and income loss will total more that \$17 billion.

In the world today, natural disasters rapidly become large-scale

media events as they unfold before our eyes. Multiple factors contribute to this wide-spread attention, for example, the sheer magnitude of the disaster event and the cataclysmatic effects on large numbers of people simultaniously, the effects last far longer than the actual event (e.g., in a matter of minutes an earthquake can produce devastation that can last a lifetime), when needs exceed resources available many disaster workers and others become part of the recovery environment, the steep financial toll, and the "on the spot" graphic media coverage.

The attention to natural disasters notwithstanding, empirical reasearch is uneven. Sources of inconsistancy in trauma research can be traced to multiple causes, for example: differences in disaster types and severity (i.e., no two disasters

are alike), and methodologic variations, for example: Differences in attribution between natural versus human-made disasters (Baum, 1984, 1993; Warheit, 1976), disaster severity, (Bromet & Schulberg, 1986; Ursano, 1987), the use of clinical populations, unstandardized measures or measures normed using combat exposed populations, variations in definition of "chronic," difficulty in obtaining control or comparison groups. The direction of trauma research includes: epidemiologic studies of community samples, the use of standardized measures to facilitate generalization and replication, and find creative ways to obtain control groups (for reviews see, Baum, Solomon, & Ursano, 1990; Bromet & Schulberg, 1987; Green, 1991).

The continental United States has been buffeted by two major hurricanes in the past two decades, Hugo (1988) and Andrew (1992). The ability to predict hurricanes has decreased morbidity and mortality in developed countries. However, even with advanced warning, property loss remains high. Consequently, while loss of life has become relatively infrequent, thousands of families must face the stress of losing their homes and the problems of dislocation and relocation. Additionally, large scale destruction of communities also results in loss of jobs with subsequent financial ramifications.

As an outgrowth of our U.S. Air Force consultation team deployed to assist the victims of Hurricane Andrew. We examined the acute and long-term impacts in the active duty women and men who relocated from Homstead AFB as Hurricane Andrew decended upon the region. This paper presents some preliminary results on the responses in active duty women and men to the stress and trauma of rapid, unexpected relocation, loss of home and community. We begin with a brief review of the nature and severity of stressors, the psychological and health effects of post-traumatic stress, some preliminary findings and consultation to disaster recommendations and/or lessons learned.

NATURE & SEVERITY OF THE STRESSOR

It is exceedingly difficult to tease out the impact of specific disaster stressors, for example: threat to life, loss of home, loss of support networks, job loss, etc. These stressors interact with the severity or intensity of the disaster to affect health outcome, along with personality, biological and environmental factors. Participation in combat, body counts, and seeing friends killed make traumatic experiences more aversive (Lauger et al, 1985; Rosenheck; Wilson & Krauss, 1982). Breslau and Davis (1987) found that the rate of PTSD for those who participated in atrocities was 100%. Card (1983) found that PTSD symptoms could be predicted almost completely by the intensity of combat. Similarly, Foy et al. (1984) using multiple regression analysis to examine a number of variables found that the level of combat was the best predictor of symptom formation (also see, Kadushin et al, 1981; Fry &

Stockton, 1982; Friedman et al, 1986; Solkoff et al, 1986). In an early study of the long-terms effects of Cyclone Tracy on the Australian community of Darwin, Milne (1977) found that respondents who had stayed in Darwin rather than being evacuated, fared best in the post-disaster recovery period, while respondents who did not return to Darwin did worse. The difference in psychological responses was attributed to the social support networks afforded to those who remained.

PSYCHOLOGICAL EFFECTS OF POST-TRAUMATIC STRESS

Breslau et al. (1991) estimated the lifetime prevalence of exposure to traumatic events at 39.1% in a random sample of 1007 young adults from a large health maintenance organization in Detroit, Michigan. The rate of PTSD in those who were exposed was 23.6%. Chronic PTSD, symptoms persisting for one year or more, were reported by 57% of those who met the PTSD criteria reported (Breslau & Davis, 1992). Other studies have reported the persistence of symptoms lasting for 3 years or longer, e.g., in 53% of combat veterans, and 41% of women who had been physically attacked (Helzer, 1987). Norris (1987) estimated that 6-7% of the United States population are exposed to a disaster or traumatic events each year -- ranging from hurricanes and tornados to motor vehicle accidents and crime. In a representative sample of women over the age of 18 in the United States, Kilpatrick (1992) found that 68.9% had been exposed to a traumatic event at sometime in their life.

Intrusive thoughts and avoidance of reminders of trauma are the classic symptoms of posttraumatic stress (Horowitz, 1979). These symptoms are the core of posttraumatic stress disorder (PTSD; DSM-III-R, American Psychiatric Association, 1987) and also highlight the role of memory in response to trauma. Horowitz (1976) made an important contribution by elaborating on these two types of responses. He identified several additional symptoms reported by trauma victims: fear of a repetition of the stressful event, shame over helplessness or emptiness, rage at the source of the stress, guilt or shame over aggressive impulses, fear of identification or merger with the victims and sadness over loss.

Although PTSD has been the traumatic disorder most often studied in recent years, it is not the only psychiatric disorder to follow traumatic events. Major depression, generalized anxiety disorder, and substance abuse are also well documented after exposure to traumas and disasters (for review see, Davidson & Fairbank, 1992; Kulka et al., 1990; Karem, 1991; Rundell et al., 1989). Comorbidity is common with PTSD. Major depression, anxiety disorders, and alcoholism often coexist with PTSD in the general population (Breslau etal, 1991; Davidson et al, 1992; Helzer et al., 1987), and among veterans (Behar, 1984; Breslau & Davis, 1987a; Escobar et al, 1983; Green et al., 1989; Helzer et al., 1987; Kulka et al, 1990; Roszell et al, 1991; Shalev et al, 1990; Sierles et al.,

1986). I general population-based epidemiological studies of PTSD (for review see, Davidson & Fairbank, 1992), 62-92% of the population with PTSD have had previous or concurrent psychiatric disorder (Davidson et al, 1992; Helzer et al., 1987; Shore et al., 1989), compared to only 15-33% of non-PTSD comparison groups (Davidson et al, 1992; Helzer et al., 1987). Shalev et al's (1990) findings highlight the importance of cigarette abuse among individuals with PTSD, an often forgotten substance of abuse.

TRAUMATIC STRESS & HEALTH BEHAVIORS

A relationship between traumatic stress and adverse health behaviors, has been suggested both in community samples (Gleser, Green, & Wingt, 1981; Helzer, Robins, & McEnvoi, 1987) and veteran samples (Card, 1987; Shalev, Bleich, & Ursano, 1990). Helzer et al. (1987) found those in the general population with PTSD were at increased risk for drug and alcohol abuse. In a sample of Buffalo Creek disaster victims, Gleser et al. (1981) found a 44% increase in cigarette smoking, a 52% increase in the use of prescription drugs, and increased alcohol consumption. Waigandt et. al's (1990) 2 year follow-up of 51 rape victims (mean age = 30) found significant, disaster specific differences between the victims and the matched controls in perceived current health status. Fewer assault victims reported "excellent health" than did nonvictims, and more victims reported "fair" or "poor" health than did nonvictims. Significant differences between victims and nonvictims were found in negative health behaviors (lack of exercise, excessive caffeine or alcohol consumption, and cigarette smoking). The victims had 50% more negative health behaviors than did control subjects.

CONSULTATION TO HURRICANE ANDREW

THE DISASTER

Hurricane Andrew, one of the largest natural disasters to occur in the United States, struck the coast of South Florida and coastal Louisiana leaving behind damage and destruction of cataclysmic proportions. People living in the

community AFB Homestead threat, experienced disaster extreme property loss, rapid disaster-related evacuation from the Homestead area, placement temporary housing and subsequent relocation. The community. Homestead however, provided excellent support for the families, e.g., evacuation assistance, temporary income iob and housing. security, choice of relocation and health care...

HURRICANE ANDREW: The Facts

- → 24 August 1992
- + 30 mile wide swath cut across Southern FL
- → Sustained winds of 145 gusts to 175 mph
- ♦ 43 deaths
- ♦ 90,000 homes destroyed
- → 160,000 people left homeless
- → Damages estimated at 30 billion
- ◆ 1500 families evacuated: Homestead AFB temporary housing, MacDill AFB & vicinity, Tampa

THE CONSULTATION

Hurricane Andrew Mental health consultation to MacDill AFB was requested by the Air Combat Command Surgeon. The Uniformed Services University of the Health Sciences (USUHS) Department of Psychiatry Center for Traumatic Stress

Studies deployed a Psychiatrist within 48 hours post-disaster. Close phone contact was maintained with members of the trauma studies group. The goal was to provide emotional and practical assistance and facilitate the recovery of evacuees from Homestead AFB, and personnel at MacDill AFB.

SUPPORT & ASSISTANCE PROVIDED TO:

- * Families evacuated from Homestead AFB
- * Hospital Commander
- * Mental Health Personnel
- * Family Support Center Personnel
- * Child Care Center Staff
- * Chaplains
- * Red Cross Staff

THE STUDY

As an outgrowth of our U.S. Air Force consultation team deployed to assist the victims of Hurricane Andrew we examined the acute and long-term impacts in

the active duty women and men who experienced sudden, traumatic relocation of home and family as Hurricane Andrew decended on the region. We followed our study groups for 38 months post-hurricane at four separate assessment points. research follow-up and recruited two matched comparison groups of adults and adolescents exposed to job-related relocation. This preliminary report focuses on the active duty women and men during the week of the hurricane and 8 months after the hurricane.

We examined the differential gender-related effects of natural disaster and rapid evacuation on the psychological and physical health in active duty women and men from Homstead Air Force Base in the wake of Hurricane. We had the unique opportunity to study the posttraumatic stress of adults and adolescents from the Homstead Air Force Base community following Hurricane Andrew. Concurrently, we recruited two matched comparison groups of adults and adolescents exposed to job-related relocation we examined the acute and long-term psychological responses in the evacuated military families of Homstead AFB. This study had several methodological advantages, e.g., our experimental and comparison groups were willing to participate in our long-term study and understood the importance of our work, we were consistent in our measurement techniques across groups and across time, and we began our study shortly after the hurricane in order to assure an adequate window to assess long-term outcome.

MILITARY WOMEN AND DISASTER: QUESTIONS OF IMPORT

1. What are the stressors assiciated with Hurricane Andrew by active duty women and by active duty men?

Define the nature of the stressor (e.g., rapid relocation).

 What are the differential gender-related effects of Hurricane Andrew on the health (psychological, physiological, social and coping behaviors) in active duty women and men evacuated from Homstead Air Force Base.

Examine the health-related differences in military women and men associated with natural disasters.

3. What are the differential effects of disaster-related relocation and permanent change of station (PCS) on health (psychological, physiological, social and coping behaviors) in active duty women evacuated from Homstead Air Force Base due to Hurricane Andrew and active duty women whose PCS was Shaw AFB or McDill AFB.

Examine the health effects of 2 types of relocation, i.e., disaster-related evacuation and PCS in military women.

SUBJECTS

The hurricane group compared to the two control groups demographically. 90.5% of the hurricane active duty members were male; 97.2% of the SSOs were female; and 35.2% of the adolescent hurricane group was male, 64.8% female. The hurricane group ranged in age from 27 to 50 years old for the active duty members, 20 to 65 years old for the SSOs, and 12 to 19 for the hurricane group adolescents. The mean ages for the hurricane group were 37.1 (SD=4.4) for active duty, 35.6 (SD=6.4) for SSOs, and 15.5 (SD=2.2) for the adolescents. The majority of the hurricane group was White. Of the active duty members 68.5% were White, 14.5% were Black, 13.3% were Hispanic, and 1.2% (N=3) were Asian; 68.8% of the SSOs were White, 13.2% were Black, 9.0% were Asian, and 6.9% were Hispanic; 60.4% of the adolescents were White, 18.9% Black, 13.2% Hispanic, and 5.7% Asian. All of the hurricane group active duty members were Noncommissioned Officers (NCOs), 45.3% were Tech Sergeants, 43.2% were Master Sergeants, 5.8% (N=14) were Senior Master Sergeants, and 5.8% were Chief Master Sergeants. The majority of the hurricane group was married, 85.6% of the active duty members and 97.2% of the SSOs. All of the active duty members had completed at least high school while 76.8% had attended some college and 14.5% had a Bachelor's degree; nearly all (97.1%) of the SSOs had completed at least high school, while 49.3% had attended some college, and 15.9% had at least a Bachelor's degree. The hurricane adolescents ranged in education from the 5th grade to 2nd year college students, 48.1% were in the 8th grade or lower, 46.3% were in high-school (9th to 12th grades), and 5.6% attended some college.

There were no significant differences on demographics between Shaw AFB and MacDill AFB, therefore the demographic data was combined. 88.5% of the comparison active duty members were male, 93.8% of the SSOs were female; and 46.9% of the adolescent comparison group was male, 53.1% female. The comparison groups ranged in age from 27 to 50 years old for the active duty members

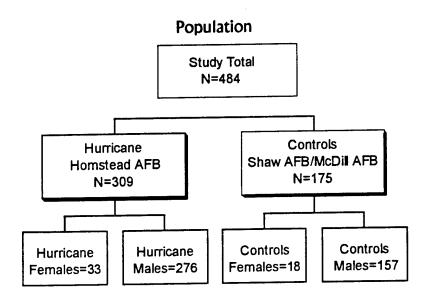
The mean ages for the comparison groups were 36.5 (SD=4.2) for active duty, 34.9 (SD=5.2) for SSOs, and 15.8 (SD=1.5) for the adolescents. The majority of the comparison group was White. Of the active duty members 79.0% were White, 14.5% were Black, 2.9% were Hispanic, and 1.4% (N=2) were Asian; 83.5% of the SSOs were White, 8.9% were Black, 2.5% were Asian, and 2.5% were Hispanic; 78.1% of the adolescents were White, 15.6% Black, and 6.3% Hispanic. All of the comparison group active duty members were Noncommissioned Officers (NCOs), 49.6% were Tech Sergeants, 35.3% were Master Sergeants, 9.4% (N=13) were Senior Master Sergeants, and 508% (N=7) were Chief Master Sergeants. The majority of the comparison group was married, 84.2% of the active duty members and all (100.0%) of the SSOs. All of the active duty members had completed at least high school while 77.7% had attended some

college and 15.1% had at least a Bachelor's degree; nearly all (95.0%) of the SSOs had completed at least high school, while 46.3% had attended some college, and 13.8% had at least a Bachelor's degree. The comparison adolescents ranged in education from the 6th grade to 12 grade, 25.1% were in the 8th grade or lower, 74.9% were in high-school (9th to 12th grades). Men and women at each site were very similar, although women were more likely to be single and more likely to be a single parent.

PROCEDURES

Questionnaires were administred approximately 8 months after Hurricane Andrew (questionnaires mailed March 19-29, 1993, see section B. Recruitment). All data were collected without names or identifiers. Of the original 755 Homestead AFB active duty members and their families that we attempted to reach, 25 were ineligible (not stationed at Homestead AFB during Hurricane Andrew). 279 (38.2%) active duty members completed and returned their questionnaires, the median date for returning the questionnaire was 8 months post Hurricane or April 19, 1993. Of the original 318 Shaw AFB active duty members and their families that we attempted to reach, 8 were ineligible (PCSed before our cut-off date). 90 (29.0%) active duty members completed and returned their questionnaires, the median date for returning the questionnaire was 8 months post Hurricane or April 26, 1993. Of the original 212 MacDill AFB active duty members and their families that we attempted to reach, 4 were ineligible (PCSed before our cut-off date). 72 (34.6%) active duty members completed and returned their questionnaires, the median date for returning the questionnaire was 8 months post Hurricane or April 12, 1993.

In our initial data collection to examine acute responses to Hurricane Andrew, letters of introduction were mailed to active duty members (senior NCOs, E-6 and above) at all three sites approximately 2 weeks prior to sending the Questionnaires. The letter described our study, our affiliation, our process to assure confidentiality and the volunteer agreement. The questionnaire packets, which included volunteer consent forms, were mailed from March 19 - 29, 1993. The packets contained three surveys (for active duty, spouse/significant others and oldest adolescent living at home, if applicable) and self-addressed mailing envelopes for return of each questionnaire separately. The median date when questionnaires were completed was approximately April 26, 1993, about 8 months after Hurricane Andrew. Questionnaire return rates were 72.3% from Homestead, 61.0% from McDill and 43.5% from Shaw (of those who received questionnaires and met the criteria for inclusion). Follow-up letters were sent approximately 3 weeks after the packet mailings. Follow-up phone calls were made at random to estimate responses to the questionnaires and rates of receiving the packets. If a packet was not received or lost, a new packet was mailed. Several weeks later thank-you (for participation) letters are sent and reminders to complete and mail the questionnaire if applicable. This step is repeated approximately 3 weeks later.



RECRUITMENT

We used USAF personnel rosters to recruit our hurricane and comparison groups. We recruited active duty members, their spouse/significant other (SSO), and their oldest adolescent child (if any). Our study group were at Homestead AFB at the time of the hurricane (August 1992) and were reassigned from Homestead AFB to the continental United States after the hurricane struck and destroyed Homestead AFB. We selected Shaw AFB, SC and MacDill AFB, Tampa, FL for recruiting our comparison groups to Homestead AFB in size and mission. All three bases were fighter squadrons. In order to maximize the number of active duty families with adolescents living at home, we recruited only senior Non-Commissioned Officers (NCOs) ranked E-6 (TSgt) and above. In order to control for the effects of routine relocation, only active duty members in the comparison groups who had recently moved to those bases (between September, 1991 and August 31, 1992) were recruited.

The Homestead, MacDill and Shaw samples did not differ significantly on demographics. The Homestead active duty respondents were mostly male (90.5%) and all were NCOs, primarily Tech Sergeants and Master Sergeants aged 27-50 (mean = 37.1, SD = 4.4). Over half (68.5%) were Caucasian (14.5%) black and 13.3% Hispanic). Most were married (85.6%) and had attended some college (76.8%). The Homestead SSOs were female, aged 20-65 (mean = 35.6, SD = 6.4). Half had some college (49.3%) some college. The Homestead adolescents were 35.2% male, 64.8% female. They ranged in age from 12-19 years (mean

= 15.5, SD = 2.2). The adolescents were 60.4% Caucasian, 18.9% Black and 13.2% Hispanic. About half of the adolescents (48.1%) were in the 5th - 8th grade and 46.3% were in high-school (a few reported some college, 5.6%)

MEASURES

Symptomatology. To determine psychological Psychological symptomatology one month post-disaster we administered the SCL-90-R (Derogatis, 1983). This self-report checklist inquires about symptoms during the preceding week. The SCL-90 is composed of 90 items that are scored on a 5-point scale: 0 = not at all; 1 = a little bit; 2 = moderately; 3 = quite a bit; 4 = extremely. The SCL-90 provides a global index of symptom reporting, and intensity of distress somatization, obsessive compulsive symptoms, scores for nine subscales: interpersonal sensitivity, depression, anxiety, phobic anxiety, hostility, paranoid ideation, and psychoticism. Reliability coefficients for the subscales range from .84 to .90, and the subscales correlate fairly highly with MMPI scales measuring similar constructs. The SCL-90 has proven useful in other research on disasters and has been administered to a variety of noninstitutionalized samples.

Disaster Specific Psychological Symptomatology. To determine the acute psychological impact of the disaster we administered the Impact of Events Scale (Horowitz et al., 1979). This widely used 15-item self-report scale measures the degree of subjective impact experienced as a result of a specific traumatic event. The IES classifies the effects of stress into two major categories: intrusion and avoidance. These symptoms are central to the diagnosis of post-traumatic stress disorder. Intrusion refers to troublesome thoughts and images, troubled dreams, strong feelings, and repetitive behaviors such as: "I thought about it when I didn't mean to". Avoidance refers to symptoms of psychic numbing, denial of meanings and consequences, behavioral inhibition, or counterphobic activities related to the stressful event: "I stayed away from reminders of it". Items are scored on a 4-point scale: 0 = not at all; 1 = rarely; 2 = sometimes; 3 = often. Means for the total IES, and the intrusion and avoidance subscales are derived. The intrusion and avoidance subscales were found to be associated (correlation of .42) but not measuring identical constructs (Horowitz et al., 1979). The IES has been crossvalidated (Zilberg et al., 1982). The item content is highly relevant and the The subscales discriminate across subscales have high internal consistency. populations and detect change over time (Schwarzwald et al., 1987; Zilberg, 1982).

Table 4

SUMMARY OF MEASURES

- 1. Psychological Symptoms
 - A. Impact of Events Scale (intrusion, avoidance, total score)
 - B. SCL-90-R:

Depression Anxiety

Hostility

Somatization

Global Symptom Index (GSI)

- 2. Physiologic Arousal
 - A. Time to Return to Normal Pace
 - B. Fatigue
 - C. Sleep Disturbance (hours of sleep)
- 3 Health Care Utilization
 - A. Annual Physical
 - C. Emotional Problems
 - D. Needed Health Care but Not Obtained

SYNOPSIS OF MAJOR RESULTS

PSYCHOLOGICAL SYMPTOMS

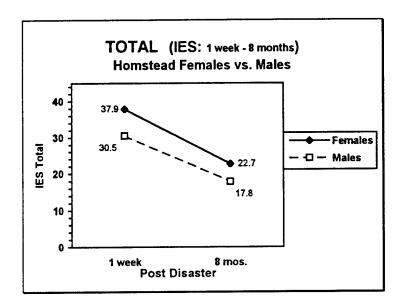
BSI (see Tables 2-1-A to E)

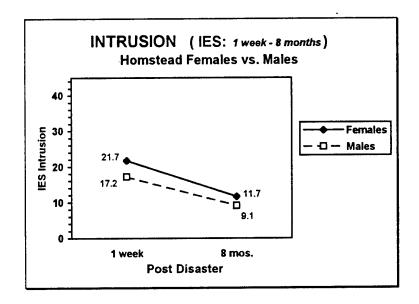
Impact of Events Scale: Disaster-related symptoms (see Tables 2-2-A to E)

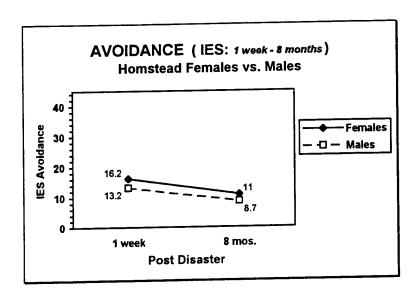
Intrusion

<u>Week of disaster</u>: Exposed group (males & females) was significantly higher in symptoms of intrusion than the control group (males & females). Exposed females were significantly higher in symptoms of intrusion than exposed males.

<u>8 months post-disaster</u>: Exposed group (males & females) was significantly higher in symptoms of intrusion than the control group (males & females).







The IES Intrusion, Avoidance, and Total scale score means and standard deviations for the Homstead Active Duty Females, Males and Total (Females + Males) were examined longitudinally, i.e., the week of the disaster and 8 months post-disaster. areTable 1. Horowitz et al. (31) identified thresholds for low, medium, and high symptom levels corresponding to levels of clinical concern using the IES total score (low = < 8.5, medium = 8.6-19.0, and high = > 19.0). Using these criteria, 43.4% at Time 1, 30.8% at Time 2, and 15.8% at Time 3 of the disaster workers were in the high level of clinical concern. For Times 1-3 respectively, 20.7%, 15.4%, and 18.2% were at the medium level.

HEALTH CARE UTILIZATION (from the disaster - 8 months post-disaster) (see Tables 2-2-A to E)

Annual Physical. Exposed group (males & females) were not significantly different than the control group (males & females).

Physical Problems. Exposed group (males & females) reported more physical health problems than the control group (males & females). Exposed females reported significantly more physical health problems than exposed males.

Emotional Problems. Exposed group (males & females) reported more emotional problems than the control group (males & females).

Needed Health Care but Not Obtained. Exposed group (males & females) did not differ from the control group (males & females).

PHYSIOLOGIC AROUSAL

Time to Return to Normal Pace. Exposed group (males & females) took significantly more time to return to normal pace than the control group (males & females). The majority of the control group did not alter usual pace. More of the exposed females took greater than 4 weeks to return to normal pace than did the exposed males.

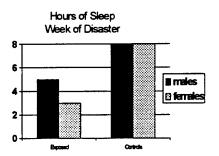
Fatigue.

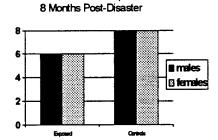
<u>Week of disaster</u>: Exposed group (males & females) was significantly more fatigued than the control group (males & females). Exposed females were significantly more fatigued than exposed males.

Sleep Disturbance (hours of sleep)

<u>Week of disaster</u>: Exposed group (males & females) was significantly lower than the control group (males & females). Exposed females were significantly lower than males.

8 months post-disaster: Exposed group (males & females) was significantly lower than the control group (males & females).





Hours of Sleep

DISCUSSION

People in the Homestead group experienced disaster threat, extreme property loss, disaster-related evacuation from the Homestead area, placement in temporary housing and subsequent relocation (see Table 2). In addition, they had excellent support - the best probably ever given such a severe disaster population: no loss of job, income, food or health care. Therefore in many ways they represent one end of the disaster spectrum never before studied. Second, we recruited two matched comparison groups who had job-related relocations, therefore, controlling for the 'normal' stress of relocations. Third, we recruited a study group and two comparison groups of adolescents

Table 2

NATURE of the STRESSOR: HURRICANE ANDREW

- * Unexpected-with short anticipation phase
- * Evacuation
- * Rapid Relocation
- * Affected entire community
- * Needs exceeded available community resources
- * Fear of death to self/family/close friend
- * Fear of physical injury to self/family/close friend
- * Loss/damage to home & personal belongings
- * Unanticipated separation from family & community
- * Loss of social support networks
- * Loss of job (spouse significant other)
- * Financial uncertainty-insurance claims
- * Adjustment to new community

Importantly, we designed our study to avoid the pitfall that often results from over-simplification in studies limited to the examination of gender differences, i.e., comparisons of females and males on given areas. There is a tendency to use men as the norm with which to compare women, i.e., the magnitude of deviation in women from the norm established for men. This "bias" tends to be magnified in empirical studies of environments that are mostly men. The military, a traditionally male dominated culture, has set many of its standards by male performance, preferences and needs. This approach precludes the identification of norms established within gender group and can foster - overtly as well as covertly - competition between women and men that favors men. Perhaps, and of greatest import, are the tenacious expectations that often become characterizations and sterotypes. It turns the natural diversity between subgroups in our population into qualitative comparisons that foster alienation and discord between groups. associated with research that compairs women's functioning to that of men. There are a number of excellent articles

and reviews that focus on the prospects and pitfalls from research on the comparison of gender differences in the civilian community (e.g., .), and in the military (e.g.,).

Unlike gender-related research that narrowly focused on a particular area of interest, our research strategy considered the interactions of psychological, behavioral, cognitive, physiological, and social processes. This approcach, advocated by Baum and Grunberg (1991), takes into account the interactions of these processes as they occur in a natural setting-not as an isolated aspect of human functioning. Although, some researchers with a narrow focus acknowledge the limitations, many proceed to draw conclusions about gender-related differences in relative isolation of other responses. Unfortunately, these studies result in conclusions about gender-related differences that are missleading at best, and have negative implications for policy decisions.

Importantly in this study some significant gender differences were present, even when the overall responses of males and females, exposed vs. controls were different. Generally, females reported greater fatigue, less sleep and a longer period to recover. Exposed women also more often sought help for physical problems than did men. Exposed women also reported greater intrusive but not avoidant symptoms than exposed men. To what extent these findings represent differences in reporting, differences in biology and/or differences in availability of resources (health care utilization) require specific study.

CONCLUSIONS

Below we suggest some preliminary recommendations for consultation and deployment of a mental health team to disaster. These recommendations are important for planning for deployment and consultation to disaster, however, they highlight an often overlooked aspect of consultation, i.e., the mental health team itself is part of the disaster environment and affected by the associated stressors. The nature of disaster stress on mental health teams is an important area for study of what to expect, how to cope and importantly, how to train teams to recognize and respond to stress in team members.

Recommendations for Deployment & Consultation to Disaster:

- Establish ongoing consultation teams which train together routinely, so that they are ready when disaster strikes. This facilitates development of the leadership, coordination and communication skills which are critical in responding to disasters.
- ❖ Train these mental health personnel on the process of providing consultation to a disaster, e.g., be flexible to the needs of individuals and groups in the disaster environment, be available and visible, and do not intrude/obstruct the disaster environment.
- Coordinate with community leaders to assess needs.
- Alert supervisors to watch for subtle signs of stress such as fatigue and lack of concentration in the several weeks following a disaster.
- ♦ Train leaders to identify people at risk for psychological distress: e.g., evacuees, the bereaved, single parents, disaster workers and their families.
- Educate individuals/groups about what to expect following the disaster. Discuss responses that may be "normal responses to an abnormal situation". Explain that the process of recovery from the stress of disaster can take months.
- Facilitate recovery through scheduling work to provide rest and respite.
- Encourage people to talk about the experience sharing feelings in debriefing groups can help to "normalize" the experience.
- \diamondsuit Include family members, even the non-exposed, in debriefing groups.
- Develop collaborative liaisons for future research. Research following disaster is important to learning more about recovery and helping consultation teams respond to those exposed to disaster stress.

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Table 1-1. Demographics-Males vs. Females, Homestead

	Males (N=276)	=276)	Female $(N=33)$	1=33)	Males and	Males and Females $(N=309)$	(608	Males vs. Females	males
Variables	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	Number of Subjects	0	Percent D or Mean	$\frac{DF}{T} = \frac{\chi^2 \text{ or}}{T - \text{value}}$	Prob
RACE								4 16.905	0.002
White	1881	68.7%	201	62.5%	209		68.1%		
Black	36	13.1%	12	37.5%	48		15.6%		
Asian	*	1.8%	0	%0	~.		1.6%		
Hispanic	38	13.8%	0	%0	38		12.4%		
Other	7	2.6%	0	%0	•		2.3%		
BACK L., WHITE								10.511	0.474
White	1891	68.7%	201	62.5%	209		68.1%		
Non-White	98	31.3%	12	37.5%	86		31.9%		
AGE	276	36.9	33	33.1	309	6	36.8	307 0.9056	0.3659
NAME OF THE PROPERTY OF THE PR								4 4.649	0.325
		0.4%	10	%0		4	0.3%		
	131	47.6%	61	59.4%	15		48.9%		
	=	40.4%	13	40.6%	124		40.4%		
	1	6.2%	.0	%0	-		5.5%		
6-2	12	5.5%	0	%0		15	4.9%		
								1 210	0.220
	261	9.5%	2	6.5%	~	28	9.2%		
	213	77.5%	23	74.2%	236		77.1%		
2	35	12.7%	9	19.4%	•	41	3.4%		
Masters Degree		0.4%	0	%0			0.3%		
EDUCATION by COLLEGE DEGREE								1 0.923	3 0.337
Below College	2391	86.9%	252	80.6%	***************************************		86.3%		
College or Up	36	13.1%	9	19.4%	7	42	13.7%		
MADITAL STATISCES OF COMMENS OF STATISCES OF								1 7.592	2 0.006
11.1 2.00 3.00 3.00 4.00 4.00 4.00 4.00 4.00 4	236	85.5%	22	66.7%	7	258	83,5%		
Not Married	40	14.5%	=	33.3%			6,5%		

2.20 39.3 2.13 0.0394	83.5% 1.3% 15.2%	89.0% 11.0%	63% 0.018 37%
254	258 4 47	226	17 10
1.92	66.7% 0% 33.3%	74.1%	100% 0%
274	22 0 11	204	5° 0
227³ 2.23	236 85.5% 4 1.4% 36 13.0%	206³ 90.7% 21 9.3%	10° 50% 10 50%
NUMBER OF CHILDREN	LIVING WITH SSO With Spouse With Sig. Other No SSO	SINGLE PARENT No Yes	SINGLE PARENT LIVING WITH CHILDREN Single Parent Living with Children Single Parent Not Living with Children

Information missing on 1 person.
 Information missing on 2 persons.
 Information missing or N/A on 49 persons.
 Information missing or N/A on 6 persons.
 Information missing or N/A on 256 persons.
 Information missing or N/A on 26 persons.

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Table 1-2. Demographics-Males vs Females, Control (Shaw/MacDill)

	Males (N=157)	V=157)	Females (N=18)	V=18)	Males and Females (N=175)	les (N=175)	Ma	Males vs. Females	ales
Variables	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	Number of Subject	Percent or Mean	DF	χ^2 or T-value	Prob
RACE							4	0.954	0.917
White	119	76.8%	14	77.8%	133	76.9%			
Black	25	16.1%	3	16.7%	28	16.2%			
Asian	7	1.3%	0	%0	2	1.2%			i.
Hispanic	*0	3.2%	-	2.6%	9	3.5%			
Other	4	2.6%	0	%0	4	2.3%			
							***	000	
White the state of	110	76 8 %	7	77 9 07.	133	76 00		6 6 6 7	0.924
Non-White	36	23.2%	4	22.2%	40	23.1%			
AGE - Company of the	1562	36.5	18	36.2	174	36.5	172	0.3284	0.7430
RANK							7	1.157	0.885
		0.6%	0	%0		0.6%			
100 100 100 100 100 100 100 100 100 100	92	49.0%	6	20%	82	49.1%			
The second of th	26	36.1%	7	38.9%	63	36.4%			
8- ⊞	14	9.0%		11.1%	16	9.2%			
E-9	∞ 27.	5.2%	0	%0	∞	4.6%			
	:						***************************************	1	1
LDUCATION US Einished		, A	c	11 100	Ç	80 9	70	0.01	 4
Some College	120	76.4%	4 5	72.79%	21	76.0%			
Bechelors Degree	23	14.6%	en L	16.7%	26	14.9%			
Masters Degree	4	2.5%	0	%0	4	2.3%			
EDUCATION by COLLEGE DEGREE						1 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.003	0.055
Below College	130	82.8%	15	83.3%	145	82.9%			}
College or Up	27	17.2%	93	16.7%	30	17.1%			
MARITAL STATUS								18.378	0.000
Currently Married	139	88.5%	00	50.0%	148	84.6%			
	9	9/ 5:11	n	20.00	/7	13.4%			

86.6% 13.4%	2.3 363 1.0508 0.2940	86.6% 0.9% 12.5%	91.2% 8.8%	35.5% 1 5.188 0.023 64.5%
375 58	365	375 4 54	333 32	11 20
88.5% 11.5%	2.3	88.5% 0% 11.5%	92.0%	9.1%
139	1384	139	1274	1 ⁶ 10
85.5%	2.2	85.5% 1.4% 13.0%	90.7%	50.0% 50.0%
236	2273	236 4 36	206³	105
				IL.DREN en nildren
MARITAL STATUS Currently Married Not Married	NUMBER OF CHILDREN	LIVING with SSO With Spouse With Sig. Other No SSO	SINGLE PARENT No Yes	SINGLE PARENT LIVING with CHILDREN Single Parent Living with Children Single Parent Not Living with Children

Information missing on 1 person.
 Information missing of 2 persons.
 Information missing or N/A on 49 persons.
 Information missing or N/A on 19 persons.
 Information missing or N/A on 256 persons.
 Information missing or N/A on 146 persons.

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Table 1-3. Demographics - Males and Females, Homestead vs MacDill/Shaw

	Homestead (N = 309)	(N=309)	MacDill/Shaw (N=175)	v (N=175)	Homestead and MacDill/Shaw (N=484)	MacDill/Shaw 484)	Homestead vs. MacDill/Shaw	AacDill/Shaw
Variables	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	$\frac{DF}{T-value}$	r Prob e
RACE							4 10.976	6 0.027
White	2091	68.1%	1331	76.9%	342	71.3%		
Black	48	15.6%	28	16.2%	76	15.8%		
Asian	ν.	1.6%	2	1.2%	7	1.5%		
Hispanic	38	12.4%	9	3.5%	44	9.2%		
Other	7	2.3%	4	2.3%	=	2.3%		
RACE by WHITE							1 4.183	3 0.041
White	2091	68.1%	1331	76.9%	342	71.3%		
Non-White	86	31.9%	40	23.1%	138	28.8%		
AGE	309	36.8	174²	36.5	483	36.7	481 0.7347	7 0.4629
RANK							5 5.021	1 0.413
	-0	%0	<u>-</u>	0.6%		0.2%		
B-3	T .	. 0.3%	0	%0	_	0.2%		
B.6	150	48.9%	85	49.1%	235	49.0%		
E-7	124	40.4%	63	36.4%	187	39.0%		
8.2	11	5.5%	16	9.2%	33	6.9%		
6. 1	15	4.9%	∞	4.6%	23	4.8%		
EDITCATION TO THE PROPERTY OF							3 5.002	2 0.172
HS Finished	283	9.2%	12	6.9%	40	8.3%		
ق	236	77.1%	133	76.0%	369	76.7%		
Bechelors Degree	41	13.4%	26	14.9%	<i>L</i> 9	13.9%		
Masters Degree		0.3%	4	2.3%	.* 0	1.0%		
EDUCATION by COLLEGE DEGREE			•) (•		1.021	.1 0.312
Below College	¥07	80.3%	145	87.7%	409 61	82.0%		
College or Up	7.4	13.7%	30	17.1%	7)	%0.CI		

MARITAL STATUS Currently Married Not Married	258 51	83.5%	148	84.6% 15.4%	406	83.9%	960'0
NUMBER OF CHILDREN	254*	2.2	148²	2.3	402	2.2	0
	9	, co	140	87 70	707	62 08	2 0.590 0.744
	807	83.3%	140	04.0%	9	02.378	
	4	1.3%	-	%9.0	'n	1.0%	
	47	15.2%	26	14.9%	73	15.1%	
							1 0.512 0.474
	2264	89.0%	1355	91.2%	361	86.8%	
	78	11.0%	13	8.8%	41	10.2%	
SINGLE PARENT LIVING with CHILDREN							1 5.584 0.018
Single Parent Living with Children	17,	63.0%	37	23.1%	20	20.0%	
Single Parent Not Living with Children	10	37.0%	10	76.9%	20	\$0.0%	

Information missing on 2 persons.
 Information missing on 1 person.
 Information missing on N/A on 55 persons.
 Information missing or N/A on 27 persons.
 Information missing or N/A on 282 persons.
 Information missing or N/A on 162 persons.

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Table 1-4. Demographics - Males, Homestead vs. MacDill/Shaw

	Homes	Homestead (N=276)	=276)	MacDill/Shaw (N=157)	w (N=157)	Homestead an (N=	Homestead and MacDill/Shaw (N=433)	Homeste	Homestead vs. MacDill/Shaw	II/Shaw
Variables	Number of Subjects		Percent or Mean	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	DF	χ^2 or T-value	Prob
RACE	-						:	•	12.833	0.012
White	-	189	68.7%	1192	76.8%	308	71.6%			
Black		36	13.1%	25	16.1%	61	14.2%			
Asian		5	1.8%	2	1.3%	7	1.6%			
Hispanic		38	13.8%	S	3.2%	43	10.0%			
Other		7	2.5%	4	2.6%	11	2.6%			
RACE by WHITE									3,159	0.076
White		1891	68.7%	1192	76.8%	308	71.6%			
Non-White	1	98	31.3%	36	23.2%	122	28.4%			
AGE		276	36.9	1561	36.5	432	36.7	430	0.7883	0.4310
RANK								Ŋ	3.969	0.554
		ō	%0	12	0.6%		0.2%			
E-3		- -	0.4%	0	%0	1	0.2%			
E-6		131	47.6%	9/	49.0%	207	48.1%			
E-1		111	40.4%	26	36.1%	167	38.8%			
8-2		17	6.2%	4	80.6	31	7.2%			
6-4		15	5.5%	~	5.2%	23	5.3%			
BUTICATION			## ## ## ## ##	:£				9	5.549	0.136
HS Finished		261	9.5%	01	6.4%	36	8.3%			
Some College		213	77.5%	120	76.4%	333	77.1%			
Bechelors Degree		35	12.7%	23	14.6%	58	13.4%			
Masters Degree		-	0.4%	4	2.5%	\$	1.2%			
EDITCATION Nº COLLEGE DEGREE									1 143	0.245
Relow College		2391	86.9%	130	82.8%	369	85.4%			
College or Up		36	13.1%	77	17.2%	63				

NUMBER OF CHILDREN 2.34	10•	1.90	148 2.31 146 1,4604 0,1463
LIVING WITH SSO With Spouse With Sig. Other No SSO LIVING WITH SSO 139 88.5% 0 0 0%	6 1 8	50.0% 5.6% 44.4%	148 84.6% 2 23.380 0.000 1 0.6% 26 14.9%
SINGLE PARENT No No Yes 111 8.0%	2	80.0% 20.0%	135 91.2% 13 8.8%
SINGLE PARENT LIVING WITH CHILDREN Single Parent Living with Children Single Parent Not Living with Children 10 90.9%	²⁶ 0	100% 0%	3 23.1% 1 7.879 0.005 10 76.9%

Information missing on 2 persons.
 Information missing on 1 persons.
 Information missing or N/A on 19 persons.
 Information missing or N/A on 8 persons.
 Information missing or N/A on 146 persons.
 information missing or N/A on 16 persons.

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Table 1-5. Demographics - Females, Homestead vs. MacDill/Shaw

	Homest	Homestead (N=33)	MacDill/Shaw (N=18)	v (N = 18)	Homestead and MacDill/Shaw (N=51)	facDill/Shaw 1)	Homestea	Homestead vs. MacDill/Shaw	ill/Shaw
Variables	Number of Subjects	of Percent ts or Mean	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	DF	χ² or T-value	Prob
RACE							7	3.840	0.147
White	×	201 62.5%	14	77.8%	34	68.0%			
Black	-	12 37.5%	8	16.7%	15	30.0%			
Hispanic				2.6%		2.0%			
RACE by WHITE						-1 -1		1.236	0.266
White	73	201 62.5%	14	77.8%	34	68.0%			
Non-White		12 37.5%	4	22.2%	16	32.0%			
AGE WELL STREET TO STREET THE STREET		33 36.1	18	36.2	51	36.1	49	-0.0376	0.9702
RANK							2	3.745	0.154
. 9-H	-	19! 59.4%	6	\$0.0%	28	\$6.0%			
E-7	:	13 40.6%	7	38.9%	20	40.0%			
E-8		%0 0	2	11.1%	7	4.0%			
EDUCATION							2	0.354	0.838
HS Finished		22 6.5%	7	11.1%	4	8.2%			
Some College		23 74.2%	13	72.2%	36	73.5%			
Bechelors Degree		6 19.4%	m	16.7%	6	18.4%			
EDUCATION by College Degree								0.055	0.815
Below College	2	252 80.6%	. 15	83.3%	40	81.6%			
College or Up		6 19.4%	က	16.7%	6	18.4%			

MARITAL STATUS Currently Married Not Married	22	66.7% 33.3%	9 9	50.0% 50.0%	31	60.8% 39.2%	1 1.357 0.244
NUMBER OR CHILDREN	273	1.9	104	1.9	37	1.9	35 0.1079 0.9147
LIVING with SSO With Spouse	22	%1.99	6	\$0.0%	31		2 2.752 0.253
With Sig. Other	0	%0	-	2.6%	-	2.0%	
No SSO	11	33.3%	∞	44.4%	19	37.3%	
SINGLE PARENT No	20\$	74.1%	%	80.0%	28	75.7%	1 0.139 0.709
Yes	7	25.9%	7	20.0%	0	24.3%	
SINGLE PARENT LIVING with CHILDREN Single Parent Living with Children	T	100%	28	100%	6	N %001	N/A N/A N/A

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Information missing on 1 person.
 Information missing on 2 persons.
 Information missing on 6 persons.
 Information missing on 8 persons.
 Information missing or N/A on 6 persons.
 Information missing or N/A on 8 persons.
 Information missing or N/A on 26 persons.
 Information missing or N/A on 16 persons.

Table 2-1-A Psychiatric Symptoms BSI-Males vs. Females, Homestead

	Males (N=276)	276)	Females (N=33)	=33)	Males and Females (N=309)	s (N=309)	Ÿ	Males vs. Females	
Variables	Number of Subjects	Mean	Number of Subjects	Mean	Number or Subjects	Mean	DF	T-value	Prob
BSI SOMATIZATION	273	0.419	33	0.476	306	0.425	304	-0.5242	0.6005
OBSESSIVE-COMPULSIVE	2731	0.920	33	1.20	306	0.950	304	-1.7466	0.0817
INTERPERSONAL SENSITIVITY	2742	0.657	33	0.838	307	0.677	305	-1.2424	0.2151
DEPRESSION	2731	0.697	33	1.015	306	0.732	304	-2.0657	0.0397
ANXIETY	2731	0.545	33	0.722	306	0.564	304	-1.4446	0.1496
HOSTILITY	2731	0.634	33	0.727	306	0.644	304	-0.6950	0.4876
GLOBAL SCORES	2731	31.589	33	40.177	306	32.515	304	-1.5102	0.1320
GLOBAL SEVERITY INDEX	2731	0.596	. 33	0.758	306	0.613	304	-1.5102	0.1320
BPSDI POSITIVE SYMPTOM DISTRESS INDEX	251³	1.634	312	1.854	282	1.658	280	-2.1946	0.0290

Information missing on 3 persons.
 Information missing on 2 persons.
 Information missing on 25 persons.

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Table 2-1-B Psychiatric Symptoms BSI-Males vs. Females. Control (MacDill and Shaw)

	Males $(N=157)$	57)	Females (N=18)	:18)	Males and Females (N=175)	(N=175)	Mal	Males vs Females	,,
- Variables	Number of Subjects	Mean	Number of Subjects	Mean	Number of Subjects	Mean	DF	T-value	Prob
BSI SOMATIZATION	1561	0.239	81	0.122	174	0.227	43.6	2.3596	0.0228
OBSESSIVE-COMPULSIVE	156'	0.647	18	0.454	174	0.627	172	1.1570	0.2489
INTERPERSONAL SENSITIVITY	156'	0.444	18	0.361	174	0.435	172	0.5055	0.6139
DEPRESSION	156'	0.434	18	0.296	174	0.420	39.8	1.7254	0.0922
ANXIETY	1561	0.350	18	0.287	174	0.343	172	0.5630	0.5742
HOSTILITY	1561	0.437	18	0.344	174	0.427	172	0.6854	0.4940
GLOBAL SCORES	1561	21.325	18	13.957	174	20.563	32.8	2.2027	0.0348
GLOBAL SEVERITY INDEX	156'	0.402	18	0.263	174	0.388	32.8	2.2027	0.0348
BPSDI POSITIVE SYMPTOM DISTRESS INDEX	1392	1.467	15³	1.243	154	1.445	30.5	3.242	0.0029

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Information missing on 1 person.
 Information missing on 18 persons.
 Information missing on 3 persons.

Table 2-1-C Psychiatric Symptoms BSI - Males and Females, Homestead vs. MacDill/Shaw

	Homestead (N	(N=309)	MacDill/Shaw (N=175)	N=175)	Homestead and MacDill/Shaw (N=484)	ıcDill/Shaw)	Homeste	Homestead vs. MacDill/Shaw	II/Shaw
Variables	Number of Subjects	Mean	Number of Subjects	Mean	Number of Subjects	Mean	DF	T-Value	Prob
BSI SOMATIZATION	306	0.425	174²	0.227	480	0.353	473.3	4.5039	0.0001
OBSESSIVE-COMPULSIVE	3061	0.950	174²	0.627	480	0.833	436.8	4.5141	0.0001
INTERPERSONAL SENSITIVITY	307³	0.677	1742	0.435	481	0.589	416	3.5897	0.0004
DEPRESSION	3061	0.732	1742	0.420	480	0.619	462.8	4.8242	0.0001
ANXIETY	3061	0.564	1742	0.343	480	0.484	465.9	4.3382	0.0001
ноѕтілту	3061	0.644	1742	0.427	480	0.566	444.7	3.7383	0.0002
GLOBAL SCORES	306	32.515	174²	20.563	480	28.182	458.2	4.9605	0.0001
GLOBAL SEVERITY INDEX	306	0.613	1742	0.388	480	0.532	458.2	4.9605	0.0001
BPSDI POSITIVE SYMPTOM DISTRESS INDEX	2824	1.658	1545	1.445	436	1.583	356.5	4.3968	0.0001

Information missing on 3 persons.
 Information missing on 1 person.
 Information missing on 2 persons.
 Information missing on 27 persons.
 Information missing on 21 persons.

Table 2-1-D Psychiatric Symptoms BSI - Males, Homestead vs. MacDill/Shaw

	Homestead (N	=276)	MacDill/Shaw (N=157)	N = 157)	Homested and MacDill/Shaw (N=433)	facDill/Shaw 13)	Homestea	Homestead vs. MacDill/Shaw	I/Shaw
Variables	Number of Subjects	Mean	Number of Subjects	Mean	Number of Subjects	Mean	DF	T-Value	Prob
BSI SOMATIZATION	2731	0.419	156²	0.239	429	0.354	420.9	3.7673	0.0002
OBSESSIVE-COMPULSIVE	273'	0.920	1562	0.647	429	0.821	380.5	3.5973	0.0004
INTERPERSONAL SENSITIVITY	274³	0.657	1562	0.444	430	0.580	428	2.8948	0.0040
DEPRESSION	2731	0.697	1562	0.434	429	0.602	402.3	3.8366	0.0001
ANXIETY	2731	0.545	1562	0.350	429	0.474	412.4	3.5956	0.0004
HOSTILITY	2731	0.634	156²	0.437	429	0.562	390	3.1954	0.0015
GLOBAL SCORES	2731	31.589	156	21.325	429	27.857	402	3.9863	0.0001
GLOBAL SEVERITY INDEX	2731	0.596	156	0.402	429	0.526	402	3.9863	0.0001
BPSDI POSITIVE SYMPTOM DISTRESS INDEX	2514	1.634	139	1.467	390	1.574	388	3.1582	0.0017

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Information missing on 3 persons.
 Information missing on 1 person.
 Information missing on 2 persons.
 Information missing on 25 persons.
 Information missing on 18 persons.

Table 2-1-E Psychiatric Symptoms BSI - Females, Homestead vs. MacDill/Shaw

	Homestead (N=33)	N=33)	MacDill/Shaw (N=18)	(N=18)	Homestead and MacDill/Shaw (N = 51)	tcDill/Shaw	Homestea	Homestead vs. MacDill/Shaw	I/Shaw
Variables	Number of Subjects	Mean	Number of Subjects	Mean	Number of Subjects	Mean	DF	T-Value	Prob
BSI SOMATIZATION	33	0.476	18	0.122	51	0.351	42.3	3.6225	0.0008
OBSESSIVE-COMPULSIVE	33	1.201	18	0.454	51	0.937	48.7	3.5647	0.0008
INTERPERSONAL SENSITIVITY	33	0.838	18	0.361	51	0.670	48.9	2.3149	0.0249
DEPRESSION	33	1.015	18	0.296	51	0.761	40.1	3.9448	0.0003
ANXIETY	33	0.722	18	0.287	51	0.569	48.6	3.0526	0.0037
HOSTILITY	33	0.727	18	0.344	51	0.592	48.8	2.2790	0.0271
GLOBAL SCORES	33	40.177	18	13.957	51	30.923	44.5	4.0976	0.0002
GLOBAL SEVERITY INDEX	33	0.758	18	0.263	51	0.583	44.5	4.0976	0.0002
BPSDI POSITIVE SYMPTOM DISTRESS INDEX	311	1.854	152	1.243	46	1.654	41.8	4.9676	0.0001

^{1.} Information missing on 2 persons.
2. Information missing on 3 persons.

Table 2-2-A Psychiatric Symptoms CIOE-Males vs. Females, Homestead

	Males (N=276)	276)	Females (N=33)	=33)	Males and Females (N=309)	les (N=309)	Male	Males vs. Females	
Variables	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	DF	χ^2 or T-value	Prob
CURRENT IMPACT OF EVENT Scores	2711	17.810	33	22.675	304	18.338	302	-1.5275	0.1277
Intrusion	1172	9.141	33	11.677	304	9.417	302	-1.5306	0.1269
Avoidance	2711	8.669	33	11.030	304	8.925	302	-1.3310	0.1842
Scores by 19 Le 19 Gt 19	1641	60.5%	16	48.5	180	59.2 40.8		1.763	0.184
Scores by 3 Levels Le 8.5 8.6-19	1111	41.0%	10	30.3%	121 59	39.8% 19.4%	2	1.912	0.384
Gt 19 ACUTE IMPACT OF EVENT Scores	107	39.5.%	313	51.5% 37.866	124	40.8%	297	-2.3730	0.0183
Intrusion	2683	17.239	313	21.677	299	17.700	297	-2.4283	0.0158
61	73. 195	27.2% 72.8%	27	12.9% 87.1%	77.	25.8% 74.2%	-	2.986	0.084

232	8.6%	G G	%0	23	7.7%
20	18.7%	4	12.9%	54	18.1%
195	72.8%	27	87.1%	222	74.2%

Information missing on 5 persons.
 Information missing on 8 persons.
 Information missing on 2 persons.

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Table 2-2-B Psychiatric Symptoms CIOE-Males vs. Females, Control (MacDill/Shaw)

	Males (N=1	=157)	Females (N=18)	(N = 18)	Males and Females (N=175)	iles (N=175)	Mal	Males vs. Females	s
Variables	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	DF	χ^2 or T-value	Prob
CURRENT IMPACT OF EVENT Scores	151	3.021	18	2.056	169	2.918	167	0.544	0.5872
Intrusion	1511	1.798	18	1.556	169	1.772	167	0.2417	0.8093
Avoidance	151	1.225	18	0.500	169	1.148	58.4	1.6468	0.1050
Scores by 19 Le 19 Gt 19	1471	97.4%	17	94.4.%	164	97.0%		0.473	0.492
Scores by 3 Levels Le 8.5 8.6-19 Gr 10	1331	88.1% 9.3% 2.6%	17 0	94.4% 0%	150	88 8.88 9.38 6.88 6.88 6.88	7	2.202	0.333
ACUTE IMPACT OF EVENT Scores	155²	7.813	8	5.611	173	7.584	19.2	0.7513	0.4616
Intrusion of the second of the	155	4.535	18	3.389	173	4.416	18.8	0.5996	0.5559
Avoidance	1552	3.269	18	2.222	173	3.160	171	0.8830	0.3785
Scores by 19 Le 19 Gt 19	138²	89.0%	16	88.9%	154	89.0%		0000	0.985

2	64.7%	24.3%	11.0%
	112	42	61
	83.3%	2.6%	11.1%
	115	_	2
	62.6%	26.5%	11.0%
	972	41	17
Scores by 3 Levels	Le 8.5 See J. Communication of the second secon	8.6-19	Gt 19

^{1.} Information missing on 6 persons.
2. Information missing on 2 persons.

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Table 2-2-C Psychiatric Symptoms CIOE - Males and Females, Homestead vs. MacDill/Shaw

	Homestead	Homestead (N=309)	MacDill/Sł	MacDill/Shaw (N=175)	Homestead and MacDill/Shaw $(N = 484)$	MacDill/Shaw 84)	Homestead	Homestead vs. MacDill/Shaw	l/Shaw
Variables	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	Number of Subjects	Mean of Percent	DF T	T-Value or χ^2	Prob
CURRENT IMPACT OF EVENT Scores	3041	18.338	1692	2.918	422	12.518	- 441.3	13.6044 0.0001	0.0001
Intrusion	3041	9.417	1692	1.772	473	6.685	453.7	12.7074	0.0001
Avoidance	3041	8.925	1692	1.148	473	6.146	425.7	12.5848	0.0001
Scores by 19 Le 19 Gt 19	180¹ 124	59.2% 40.8%	1642 5	97.0% 3.0%	344 129	72.7% 27.3%		78.373	0.000
Scores by 3 Levels Le 8.5 8.6-19 Gt 19	121' 59 124	39.8% 19.4% 40.8%	150 ² 14 5	88.8% 8.3% 3.0%	271 73 129	57.3% 15.4% 27.3%	7	1111.141	0.000
ACUTE IMPACT OF EVENT Scores	2993	31.256	1734	7.584	472	22.579	469.4	20.0024 0.0001	0.0001
Intrusion	299³	17.670	1734	4.416	472	12.831	470	18.8820	0.0001
Avoidance	299³	13.554	1734	3.160	472	9.744	468.3	16.6804	0.0001
Scores by 19 Le 19 Gt 19	77³ 222	25.8% 74.2%	154*	89.0% 11.0%	231 241	48.9% 51.1%	1	175.531	0.000
Scores by 3 Levels Le 8.5 8.6-19 Gt 19	23 54 222	7.7% 18.1% 74.2%	112 ⁴ 42 19	64.7% 24.3% 11.0%	135 96 241	28.6% 20.3% 51.1%	2	212.687	0.000

- Information missing on 5 persons.
 Information missing on 6 persons.
 Information missing on 10 persons.
 Information missing on 2 persons.

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Table 2-2-D Psychiatric Symptoms CIOE - Males, Homestead vs. MacDill/Shaw

	Homestead (N=276)	N=276)	MacDill/Shaw (N=157)	(N = 157)	Homestead and MacDill/Shaw $(N=433)$	cDill/Shaw	Homestead vs. MacDill/Shaw
Variables	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	DF χ^2 or Prob T-value
CURRENT IMPACT OF EVENT Scores	2711	17.810	1512	3.021	422	12.518	398.7 12.3934 0.0001
Intrusion	271'	9.141	1512	1.798	422	6.514	405 11.6451 0.0001
Avoidance	2711	8.669	1512	1.225	422	6.005	389 11.4210 0.0001
Scores by 19 Le 19 Gt 19	164'	60.5%	1472	97.4% 2.6%	311 111	73.7% 26.3%	1 67.871 0.000
Scores by 3 Levels Le 8.5 8.6-19 Gt 19	1111 53 107	41.0% 19.6% 39.5%	133 ² 14 4	88.1% 9.3% 2.6%	244 67 111	57.8% 15.9% 26.3%	2 93.716 0.000
ACUTE IMPACT OF EVENT Scores	2683	30.491	1554	7.813	423	22.181	419.2 18.5007 0.0001
Intrusion	2683	17.239	1554	4.535	423	12.584	419.3 17.4204 0.0001
Avoidance	268³	13.251	1554	3.269	423	9.593	419.9 15.3671 0.0001
Scores by 19 Le 19 Gt 19	73	27.2%	1384	89.0% 17.0%	211	49.9%	0.000
Scores by 3 Levels Le 8.5 8.6-19 Gt 19	23³ 50 195	8.6% 18.7% 72.8%	97 ⁴ 41 17	62.6% 26.5% 11.0%	120 91 212	28.4% 21.5% 50.1%	2 178,530 0,000

- Information missing on 5 persons.
 Information missing on 6 persons.
 Information missing on 8 persons.
 Information missing on 2 persons.

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Table 2-2-E Psychiatric Symptoms CIOE - Females, Homestead vs. MacDill/Shaw

	Homestead (N=33)	N=33)	MacDill/Shaw (N=18)	v (N=18)	Homestead and MacDill/Shaw (N=51)	1acDill/Shaw	Homestead	Homestead vs. MacDill/Shaw	/Shaw
Variables	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	DF	x² or T-value	Prob
CURRENT IMPACT OF EVENT Scores	33	22.675	18	2.056	51	15.398	40.8	5.7884	0.0001
Intrusion	33	11.677	18	1.556	51	8.105	47.7	5.1502	0.0001
Avoidance	33	11.030	18	0.500	51	7.314	33.8	5,4920	0.0001
Scores by 19 Le 19 Gt 19	11 12 14 14 14 14 14 14 14 14 14 14 14 14 14	48.5% 51.5%	17	94.4% 5.6%	33	64.7% 35.3%		10.773	0.00
Scores by 3 Levels Le 8.5 8.6-19	01 9 !	30.3%	17	94.4% 0%	27 6	52.9%		19.294	0.000
Gt 19 ACUTE IMPACT OF EVENT Scores	31'	37.866	1 81	5.6%	49	35.3%		7.2362	0.000
Intrusion	311	21.677	18	3.389	49	14.959	4	7.3397	0.0000
Avoidance Scores by 19 Le 19 Gt 19	31 ¹ 4 ¹ 27	16.170 12.9% 87.1%	18 16 2	2.222 88.9% 11.1%	49 20 29	11.047 40.8% 59.2%	1	6.6082	0.0001

1. Information missing on 2 persons.

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Table 3-1-A Health Care Utilization-Males vs. Females, Homestead

	Males (N	(=276)	Feales (N=33)	1=33)	Males and Females (N=309)	es (N=309)	Mal	Males vs. Females	,
Variables	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	DF	T-value or χ^2	Prob
MEDICARE OBTAINING									
Annual Physical								0.718	0.397
Yes	165	22.3%	92	29.0%	89	23.0%			
No	206	77.7%	22	71.0%	228	77.0%			
	•								3
FOR PHYSICAL PROBLEM								12.091	0.001
Yes	96	35.4%	22	%1.99	118	38.8%			
No	175	64.6%	11	33.3%	186	61.2%			
FOR EMOTION PROBLEM							•••	2.146	0.143
Yes	334	12.5%	75	21.9%	40	13.5%			
No	231	87.5%	32	78.1%	256	86.5%			
									- 12 - 14 - 14 - 14 - 14 - 14 - 14
NOT ABLE TO GET MED	•						-	0.945	0.331
Yes	26	10.7%	57	16.7%	31	11.4%			
No	217	89.3%	25	83.3%	242	88.6%			
FATIGUE ON MONDAY EVENING							9	12.000	0.062
	348	12.6%	13	3.1%	35	11.6%			
2	20	7.4%	7	6.3%	22	7.3%			
%	20	7.4%	0	0%	20	6.6%			
4	25	9.3%	7	6.3%	27	8.9%			
	37	13.7%	en Ter	9.4%	40	13.2%			
	43	15.9%	4	12.5%	47	15.6%			
	91	33.7%	50	62.5%	111	36.8%			

RETURNING TO NORMAL PACE						6 9.063 0.170
1-2 Days	157	5.5%		3.0%	91	5.2%
3-4 Days	23	8.4%	0	%0	23	7.5%
5-6 Days	15	5.5%	ĸ	9.1%	18	5.9%
1-2 Weeks	4	16.1%	4	12.1%	48	15.7%
3-4 Weeks	54	19.8%	9	18.2%	96	.19.6%
More than 4 Weeks	104	38.1%	19	57.6%	123	40.2%
N/A, Never Altered Normal Pace	18	%9.9	0	%0	18	5.9%
HOURS OF SLEEP						
Sunday Night	2619	3.345	328	2.313	293	3.232 291 2.2672 0.0241
Monday Night	261°	4.648	325	3.188	293	4.488 291 3.5134 0.0005
Tuesday Night	26210	5.260	325	4.906	294	5.221 292 0.9742 0.3308
Wednesday Night	264	5.750	325	5.219	736	5.693 294 1.4548 0.1468
Thursday Night	26311	5.817	328	5.313	295	5.763 293 1.3229 0.1869
Last Night	257 ¹²	6.743	312	6.419	288	6.708 286 0.8955 0.3713

Information missing on 11 persons.
 Information missing on 2 persons.
 Information missing on 5 persons.
 Information missing on 12 persons.
 Information missing on 33 persons.
 Information missing on 33 persons.
 Information missing on 6 persons.
 Information missing on 15 persons.
 Information missing on 14 persons.
 Information missing on 13 persons.
 Information missing on 13 persons.
 Information missing on 13 persons.

Table 3-1-B Health Care Utilization - Males vs. Females, Control (MacDill/Shaw)

	Males (N=	=157)	Females (N=18)	√=18)	Males and Females (N=175)	s (N=175)	Males vs. Females	Females	
Variables	Number of	Percent	Number of	Percent	Number of	Percent	$DF \chi^2$	x ² or	Prob
	Subjects	or Mean	Subjects	or Mean	Subjects	or Mean	T-value	alue	
MEDICARE OBTAINING							70	0.033	0.857
Annual Filysical	311	20.7%	32	18.8%	34	20.5%			
ON	119	79.3%	13	81.3%	132	79.5%			
							-	180	0.239
FUR PHYSICAL PROBLEM	72,7	46.5%	9	61.1%	83	48.0%			
No	83	53.5%	1	38.9%	8	52.0%			
HOP EMOTION PROBLEM							.0	0.769	0.381
Yes	73	4.6%	0,	%0	7	4.2%			
No No	145	95.4%	91	100%	161	95.8%			
								0,332	0.565
NOI ABLE 10 GE1 MED	16	10.9%	12	6.3%	17	10.4%			
No	131	89.1%	15	93.8%	146	89.68			
BATICITE ON MONDAY EVENING						7	6 12	12.267	0.056
	74	49.3%	12	66.7%	98	51.2%			
2	20	13.3%	0	%0	20	11.9%			
1 (1)	18	12.0%	1	5.6%	19	11.3%			
4	41	9.3%	2	11.1%	16	9.5%			
. .	12	8.0%	0	%0	12	7.1%			
	7	4.7%	0	0%	7	4.2%			
7	\$	3.3%	60	16.7%	0 0	4.8% %			
RETURNING TO NORMAL PACE							9	2.509	0.867
1-2 Davs	27	17.2%	2	11.1%	29	16.6%			
3-4 Davs	16	10.2%	1	5.6%		9.1%			
5-6 Davs	9	3.8%	-	5.6%	7	4.0%			
1-2 Weeks	01	6.4%	2	11.1%		6.9%			
3-4 Weeks	\$	3.2%	0	%0		2.9%			
More than 4 Weeks	4	2.5%		5.6%	ĸ	2.9%			
N/A, Never Altered Normal Pace	88	56.7%	11	61.1%	100	57.1%			

145 ⁵ 6.152 17 ⁶ 6.588 162 6.198 160 -0.8846 0.3777	1487 6.716 17° 7.118 165 6.758 163 -1.0136 0.3123	1487 6.878 176 7.176 165 6.909 163 -0.8383 0.4031	1487 6.946 176 7.353 165 6.988 163 -1.2695 0.2061	1474 6.939 176 7.294 164 6.976 162 -1.0228 0.3079	146* 7.103 17* 7.412 163 7.135 161 -0.9609 0.3381
HOURS OF SLEEP Sunday Night	Monday Night	Tuesday Night	Wednesday Night	Thursday Night	Last Night

Information missing on 7 persons.
 Information missing on 2 persons.
 Information missing on 5 persons.
 Information missing on 10 persons.
 Information missing on 12 persons.
 Information missing on 1 person.
 Information missing on 9 persons.
 Information missing on 11 persons.

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Table 3-1-C Health Care Utilization - Males and Females, Homestead vs. MacDill/Shaw

	Homestead (N	(N=309)	MacDill/	MacDill/Shaw (N=175)	Homestead and MacDill/Shaw (N=484)	MacDill/Shaw 84)	Homestead	Homestead vs. MacDill/Shaw	/Shaw
Variables	Number of Subjects	Mean or Percent	Number of Subjects	of Mean or ets Percent	Number of Subjects	Mean or Percent	DF	χ^2 or T-value	Prob
MEDICARE OBTAINING Annual Physical Yes No	681	23.0%		34 ² 20.5% 132 79.5%	102	22.1% 77.9%		0.384	0.536
FOR PHYSICAL PROBLEM Yes No	1183	38.8%		83 ⁴ 48.0% 90 52.0%	201 276	42.1%		3.795	0.051
FOR EMOTION PROBLEM Yes No	401	13.5% 86.5%		7 ⁵ 4.2% 161 95.8%	5 47% 5 417%	10.1% 89.9%	-	4.098	0.043
NOT ABLE TO GET MED Yes No	316	11.4%		17' 10.4% 146 89.6%	% 48 % 388	11.0% 89.0%		0.089	0.765
FATIGUE ON MONDAY EVENING	<u>5</u>	% Y 17	100 miles	oks \$1.7%	101	25.7%	9	130,709	0000
	2 23	7.3%				8.9%			
	2	6.6%		11.3%		8.3%			
4	27	8.9%				9.1%			
. v	40	13.2%		12 7.1%		11.1%			
9	47	15.6%		7 4.2%	% 54	11.5%			
		36.8%		8 4.8%	% 119	25.3%			

RETURNING TO NORMAL PACE						6 224.362 0.000
1-2 Days	16	5.2%	53	16.6%	45	9.4%
3-4 Days	23	7.5%	17	9.1%	40	8.3%
5-6 Days	18	8.9%	1 2	4.0%	25	5.2%
1-2 Weeks	48	15.7%	12	6.9%	09	12.5%
3-4 Weeks	8	19.6%	S	2.9%	65	13.5%
More than 4 Weeks	123	40.2%	S	2.9%	128	26.6%
N/A, Never Altered Normal Pace	18	5.9%	100	57.1%	118	24.5%
HOURS OF SLEEP		:				
Sunday Night	2939	3.232	1621	6.198	455	4.288 401.1 -14.2517 0.0001
Monday Night	2939	4.488	16510	6.758	409	5.396 439.1 12.6968 0.0001
Tuesday Night	29411	5.221	16510	6.909	459	5.828 430.6 -10.8023 0.0001
Wednesday Night	2961	5.693	16510	6.988	461	6.156 450.1 -8.6469 0.0001
Thursday Night	29512	5.763	16413	976	459	6.196 442.8 -7.6183 0.0001
Last Night	28814	6.708	1637	7.135	451	6.863 438.6 -2.8627 0.0044

^{1.} Information missing on 13 persons.

^{2.} Information missing on 9 persons.

^{3.} Information missing on 5 persons.4. Information missing on 2 persons.5. Information missing on 7 persons.

^{6.} Information missing on 36 persons. 7. Information missing on 12 persons.

^{8.} Information missing on 3 persons. 9. Information missing on 16 persons.

^{10.} Information missing on 10 persons.

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Table 3-1-D Health Care Utilization - Males, Homestead vs. MacDill/Shaw

	Homestead (estead (N=276)	MacDill/Shaw $(N=157)$	'Shaw 57)	Homestead and MacDill/Shaw (N=433)	id and ' (N=433)	Homeste	Homestead vs. MacDill/Shaw	l/Shaw
Variables	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	DF	χ^2 or T-value	Prob
MEDICARE OBTAINING									
Annual Physical	102	33 38	312	7	8	20,10	-	0.144	0.704
No	206	% L'77 17.7%	119	79.3%	325	78.3%			
FOR PHYSICAL PROBLEM								5.020	0.025
Yes	.96	35.4%	. 724	46.5%	168	39.4%			
No	175	64.6%	83	53.5%	258	%9.09			
FOR EMOTION PROBLEM								6.918	0.00
Yes	335	12.5%	73	4.6%	40	9.6%			
No	231	87.5%	145	95.4%	376	90.4%			
NOT ABLE TO GET MED					÷			0:003	0.955
Yes	26	10.7%	167	10.9%	42	10.8%			
No	217	89.3%	131	89.1%	348	89.2%			
FATIGUE ON MONDAY EVENING	ŊĊ						9	108.294	0.00
	348	12.6%	742	49.3%	108	25.7%			
2	20	7.4%	20	13.3%	40	9.5%			
	82	7.4%		12.0%	38	80.6			
	25	9.3%	14	9.3%	39	9.3%			
	37	13.7%	12	8.0%	49	11.7%			
	43	15.9%	7	4.7%	20	11.9%			
	16	33.7%	\$	3.3%	96	22.9%			

5.5%	• •	17.2%	42	8.6	6 193.110 0.000
8.4%	16	10.2%	39	9.1%	
5.5%		3.8%	21	4.9%	
16.1%	10	6.4%	24	12.6%	
19.8%	S	3.2%	59	13.7%	
38.1%	4	2.5%	108	25.1%	
%9.9	68	56.7%	107	24.9%	
3.345	1455	6.152	406	4.347	355.3 -12.5582 0.0001
4.648	148 ^{II}	6.716	409	5.396	388.2 -11.1124 0.0001
5.260	14811	6.878	41013	5.844	389.4 -9.8070 0.0001
5.75	14811	6.946	412	6.180	401.3 -7.4650 0.0001
5.817	1477	6.939	410	6.220	391.3 -6.6777 0.0001
6.743	1461	7.103	403	6.873	391.6 -2.2508 0.0249

^{1.} Information missing on 11 persons.
2. Information missing on 7 persons.
3. Information missing on 5 persons.
4. Information missing on 2 persons.
5. Information missing on 12 persons.
6. Information missing on 13 persons.
7. Information missing on 10 persons.
8. Information missing on 6 persons.
9. Information missing on 15 persons.
10. Information missing on 15 persons.
11. Information missing on 14 persons.
12. Information missing on 13 persons.
13. Information missing on 13 persons.
14. Information missing on 13 persons.
15. Information missing on 13 persons.

Table 3-1-E Health Care Utilization - Females, Homestead vs. MacDill/Shaw

	Homestead	(N=33)	MacDill/Shaw (N=18)	w (N=18)	Homestead and MacDill/Shaw (N=51)	acDill/Shaw)	Homestea	Homestead vs. MacDill/Shaw	I/Shaw
Variables	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	DF	χ^2 or T-value	Prob
MEDICARE OBTAINING Annual Physical Yes No	96'	29.0%	31	18.8% 81.3%	12 35	25.5% 74.5%		0.587	0 44
FOR PHYSICAL PROBLEM Yes No	22	66.7% 33.3%	11 L	61.1%	33	64.7% 35.3%		0.157	0.692
FOR EMOTION PROBLEM Yes No	7. 22	21.9% 78.1%	10 91	0%	7	14.6% 85.4%		4.098	0.043
NOT ABLE TO GET MED Yes No	53	16.7% 83.3%	11 SI	6.3%	6 40	13.0% 87.0%	.	0.998	0.318
FATIGUE ON MONDAY EVENING	1.	3.1%	12	66.7%	13	26.0%	9	30.331	0.000
	7		0	%0	2	4.0%			
6 4 6 7 7 7 7 7 7 7 7 7 7	0 7	6.3%	. 1	5.6%	4	2.0%			
	ĸ	9.4%	0	%0	3	6.0%			
9	4	12.5%	0	%0	4	8.0%			
1	20	62.5%	e	16.7%	23	46.0%			

RETURNING TO NORMAL PACE				6 34.798 0.000	
1-2 Days	2	11.1%	en,	5.9%	eregi o
3-4 Days		2.6%	-	2.0%	
5-6 Days		2.6%	4	7.8%	A4558
\$	2	11.1%	9	11.8%	
3-4 Weeks 6 18.2 %	0	%0	9	11.8%	Çinkiş.
More than 4 Weeks 19 57.6%	-	2.6%	20	39.2%	201914
N/A, Never Altered Normal Pace 0 0%	=	61.1%	11	21.6%	
del to do entoti					
HOURS OF SLEEP Sunday Night	172	6.588	49	3.796 47 -7.3833 0.0000	0
Monday Night 322 3.188	172	7.118	49	4.551 47 -6.0994 0.0000	0
	1.75	711	ę	. 5 KOJ 47 A775 D (1901)	· t
	.	0/1/0	,		4
Wednesday Night 322 5.219	172	7.353	49	5.959 46.9 -5.3242 0.0001	<u>.</u>
	172	7 294	49	6 47 -4:0171 0.0002	2
	i	· •			14
Last Night 6.419	172	7.412	48	6.771 45.1 -2.4753 0.0171	=1

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Information missing on 2 persons.
 Information missing on 1 person.
 Informatiom missing on 3 persons.

Table 4-1-A Coping - Males vs. Females, Homestead

	Males (N=276)	:276)	Females (N=33)	=33)	Males and Females (N=309)	(N=309)	Males	Males vs. Females	es
Variables	Number of Subjects	Percent	Number of Subjects	Percent	Number of Subjects	Percent	DF	7 ×	Prob
Talk about Andrew with Spouse or Significant Other						1			0.292
Yes	1411	57.1%	172	68.0%	158	58.1%			
No	106	42.9%	∞	32.0%	114	41.9%			
Co-Workers							1 0	0.202	0.653
Yes	1523	56.5%	20	60.6%	172	57.0%			
	117	43.5%	13	39.4%	130	43.0%			
Children							1	0.045	0.832
Yes a second sec	634	28.8%	∞	30.8%	71	29.0%			
No	156	71.2%	18	69.2%	174	71.0%			
Others						er Sa Sajasi Sajasi	1	0.013	0.908
Yes	406	41.2%	.9	42.9%	46	41.4%			
No	57	58.8%	∞	57.1%	65	58.6%			

Information missing on 29 persons.
 Information missing on 8 persons.
 Information missing on 7 persons.

^{4.} Information missing on 57 persons.
5. Information missing on 7 persons.
6. Information missing on 179 persons.
7. Information missing on 19 persons.

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Table 4-1-B. Coping - Males vs. Females, Control (MacDill/Shaw)

	Males $(N = 157)$	=157)	Females (N=18)	Male	Males and Females (N=175)	(N = 175)	Males	Males vs. Females	es
Variables	Number of Subjects	Percent	Number of Percent Subejects		Number of Subjects	Percent	DF	x ₂ .	Prob
Talk about Andrew with Spouse or Significant Other Yes No	18 ¹ 121	12.9% 87.1%	2² 18.2% 9 81.8%	2 <i>%</i> 8 <i>%</i>	20 130	13.3% 86.7%	0	0.241	0.623
Co-Workers Yes No	28³ 123	18.5% 81.5%	4 22.3	22.2% 77.8%	32 137	18.9% 81.1%	7	0,142	0.706
Children Yes No	5	3.7% 96.3%	00 111 10	0 000%	5	3.4% 96.6%		0.419	0.518
Others Yes No	46	5.2% 94.8%	1, 10. 9 90.	10.0% 90.0%	5 82	5.7% 94.3%	1	0.377	0.539

Information missing on 18 persons.
 Information missing on 7 persons.
 Information missing on 6 persons.
 Information missing on 7 persons.
 Information missing on 7 persons.
 Information missing on 80 persons.
 Information missing on 8 persons.

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Table 4-1-C Coping - Males and Females, Homestead vs. MacDill/Shaw

Variables Number of Subjects Talk about Andrew with Spouse or Significant Other Yes 158¹				MINISTER (11 11 2)	HOHICSICAL AILA MACLINICALIA (IN -404)	SIIAW (IN - 404)	HOIIICSICAU VS. INIACDIII/SIIAW	S. IVIANDI	II Clie 4
about Andrew with	ects.	Percent	Number of Subjects	Percent	Number of Subjects	Percent	DF	×	Prob
se or Significant Other									
							70	79.404	000
	1581	58.1%	202	13.3%	178	42.2%		; :) •
No	114	41.9%	130	86.7%	244	57.8%			
Co-Workers						1 2 3 4 4 4 7	1	63.792	0.000
Yes	1723	57.0%	323	18.9%	204	43.3%			
No	130	43.0%	137	81.1%	267	26.7%			
Children							1 38	38.460	0.000
Yes	7115	29.0%	56	3.4%	9/	19.4%			
No	174	71.0%	142	%9.96	316	80.6%			
Others								32.495	0.000
Yes	46,	41.4%	\$C	5.7%	51	25.8%			
No	65	28.6%	82	94.3%	147	74.2%			

Information missing on 37 persons.
 Information missing on 25 persons.
 Information missing on 7 persons.
 Information missing on 6 persons.
 Information missing on 64 persons.
 Information missing on 198 persons.
 Information missing on 88 persons.
 Information missing on 88 persons.

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Table 4-1-D Coping - Males, Homestead vs. MacDill/Shaw

	Homestead (N=276)	N=276)	MacDill/Shaw (N=157)	(N = 157)	Homestead and MacDill/Shaw (N=433)	aw (N=433)	Homestead vs. MacDill/Shaw	s. MacDill,	'Shaw
Variables	Number of Subjects	Percent	Number of Subjects	Percent	Number of Subjects	Percent	DF	×	Prob
Talk about Andrew with	į								İ
Spouse or Significant Other							1 71	71.524	0.00
Yes	141	57.1%	182	12.9%	159	41.2%			
No	106	42.9%	121	87.1%	227	28.8%			
Co-Workers							1 56	56.912	0.000
Yes	1523	56.5%	284	18.5%	180	42.9%			
N	111	43.5%	123	81.5%	240	57.1%			
Children							7	34.107	0.000
Yes	633	28.8%	56	3.7%	68	19.2%			
	oct	Ø 7.1.		90.3%	797	% o.00			
Others				1			1 29	29.515	0.000
Yes No	#0 57	41.2 <i>%</i> 58.8 <i>%</i>	4	5.2% 94.8%	130	25.3% 74.7%			
									I

Information missing on 29 persons.
 Information missing on 18 persons.
 Information missing on 7 persons.
 Information missing on 6 persons.
 Information missing on 57 persons.
 Information missing on 21 persons.
 Information missing on 179 persons.
 Information missing on 80 persons.

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Table 4-1-E Coping - Females, Homestead vs. MacDill/Shaw

	Homeste	Homestead (N=33)	MacDill/Shaw (N=18)	$^{\prime}$ (N = 18)	Homestead and MacDill/Shaw (N=51)	N=11/Shaw (N=51)	Homestead vs. MacDill/Shaw	s. MacDill	/Shaw
Variables	Number of Subjects	Percent	Number of Subjects	Percent	Number of Subjects	Percent	DF	<i>۲</i> ۲	Prob
Talk about Andrew with									
Spouse or Significant Other							1	7.607	0.006
Yes	171	%0.89	22	18.2%	19	52.8%			
N _o		32.0%	6	81.8%	17	47.2%			
Co-Workers								6.888	0.00
Yes	20	9.09	4	22.2%	24	47.1%			
No	13	39.4%	14	77.8%	27	52.9%			
Children								4.318	0.038
Yes	8	2 30.8%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	%0	∞	21.6%			
N _o	18	8 69.2%	11	100%	29	78.4%			
Other		. 10 . 20 . 20 . 1						3.048	0.081
Yes	9	3 42.9%	11	10.0%	7	29.2%			
No		8 57.1%	6	%0.06	17	70.8%			

Information missing on 8 persons.
 Information missing on 7 persons.
 Information missing on 19 persons.

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Table 4-2-A Property - Males vs. Females, Homestead

	Males	Males $(N=276)$	Females $(N=33)$	(N=33)	Males and Fe	Males and Females $(N=309)$	Σ	Males vs. Females
Variables	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	Number of Subjects	Percent or Mean	DF	T-value Prob or χ^2
Personally Affected by Looting Yes No	118'	43.7% 56.3%	11²	35.5% 64.5%	129 172	42.9% 57.1%		0.767 0.381
Extent of Damage to Your Neighborhood 1	hood 22		0	%0	2	0.7%	\$	3.264 0.659
C 4	C	0.4%	00	%0	(*)	0.3%		
	22.		. w :	16.7%	30	9.00		
1	101	36.9%	13	40.0%	114	37.5%		
Percent of Salvaged Belongings	270	33.11481	312	33.87097	301	33.19269	299	-0.1462 0.8839
Estimated Total Lost	2624	49287.77	30	61356.67	292	50527.73	32.4	-0.9242 0.3622
Claim with Air Force Yes No	162 ⁵ 106	60.4%	16 ⁶ 16	50.0% 50.0%	178	59.3% 40.7%		1.293 0.255
Amount of Claim	1537	24213.55	148	21659.29	167	23999.42	165	0,4552 0,6495
Claim Settled Yes No	131	81.9%	1310	81.3% 18.8%	144	81.8% 18.2%	-	0.004 0.951
Insurance Covered Yes No N/A	121 ¹¹	44.6% 52.8% 2.6%	18 ⁶ 14 0	56.3% 43.8% 0%	139 157 7	45.9% 51.8% 2.3%	8	2.115 0.347
Amount Insured	11912	64731.42	171	75629.41	136	66093.67	134	-0.7052 0.4819

Insurance Claim Settled						1 0.212 0.645
Yes	11014	91.7%	184	94.7%	128	
No	.01	8.3%	_	5.3%	11	

1. Information missing on 6 persons.

2. Information missing on 2 persons.

3. Information missing on 3 persons.

4. Information missing on 14 persons.

5. Information missing on 8 persons.

6. Information missing on 1 person.

7. Information missing on 123 persons.
8. Information missing on 19 persons.
9. Information missing on 116 persons.

10. Information missing on 17 persons.

11. Information missing on 5 persons.

12. Information missing on 157 persons.

13. Information missing on 16 persons.

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Table 4-3-A Other Physical Related Variables - Males vs. Females, Homestead

	Males (N=276)	=276)	Females (N=33)	(N=33)	Males and Females (N=309)	Females 09)	Males vs. Females	
Variables	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	Number of Subjects	Mean or Percent	DF T-value or χ^2	Prob
In Physical Danger Yes No	80¹ 192	29.4% 70.6%	62 26	18.8% 81.3%	86 218	28.3% 71.7%	1 1.604	0.20\$
Self Injuried Yes No	133	5.3%	2 ⁴ 25	7.4%	15 257	5.5% 94.5%	1 0.206	0.650
SSO fnjuried Yes No	55 215	2.3%	06	0%	5 236	2.1% 97.9%	1 0.487	0.485
Children Injuried Yes No	100	5.0%	0, 21	0%	10 211	4.5% 95.5%	1 1.100	0.294
Other Persons Injuried Yes No	33	2.2% 97.8%	00	0 % 100 %	3	1.9% 98.1%	1 0.380	0.538
I was Concerned for My Safety							6 10:061	0.122
	87 ¹⁰	33.2%	<i>L</i> 4	21.9%	\$ %	32.0% 17.6%		
	26	6.6%	• •	18.8%	33	10.9%		
4	3	13.0%	8	9.4%	37	12.6%		
\$	28	10.7%		3.1%	29	9.9%		
. The second of	21	8.0%	~ 6	6.3%	23	7.8%		
	CC	16.0%	^	28.176	74	14.3%		

1. Information missing on 4 persons.

- Information missing on 1 person.
 Information missing on 31 persons.
 Information missing on 6 persons.
 Information missing on 12 persons.
 Information missing on 12 persons.
 Information missing on 16 persons.
 Information missing on 18 persons.
 Information missing on 16 persons.
 Information missing on 14 persons.

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Table 4-3-B Other Physical Related Variables - Males vs. Females Control (MacDill/Shaw)

	Males $(N=157)$	=157)	Females (N=18)	V=18)	Males and Females (N=175)	s (N = 175)	Male	Males vs. Females	
Variables	Number of Subjects	Percent	Number of Subjects	Percent	Number of Subjects	Percent	DF	x	Prob
I Was Concerned for My Safety							9	4.055	0.669
	189	68.7%	122	92.3%	80	71.4%	•	! !	
2	12	12.1%	0	0%	12	10.7%			
3	7	7.1%	1	7.7%	&	7.1%			
4	9	6.1%	0	0%	9	5.4%			
S	1	1.0%	0	0%	-	0.9%			
9	7	2.0%	0	0%	2	1.8%			
7	3	3.0%	0	%0	3	2.7%		,	

1. Information missing on 58 persons.
2. Information missing on 5 persons.

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Table 4-3-C Other Physical Related Variables - Males and Females, Homestead vs. MacDill/Shaw

	Homestead (N=309)	v=309)	MacDill/Shaw (N=175)	(N=175)	Homestead and MacDill/Shaw (N=484)	id and r (N=484)	Homestead	Homestead vs. MacDill/Shaw	Il/Shaw
Variable	Number of Subjects	Percent	Number of Subjects	Percent	Number of Subjects	Percent	DF	7x	Prob
I Was Concerned for My Safety							9	58.341	0.000
1	941	32.0%	805	71.4%	174	42.9%			
2	37	12.6%	12	10.7%	49	12.1%			
3	32	10.9%	∞	7.1%	40	6.6%			
4	37	12.6%	9	5.4%	43	10.6%			
δ.	29	6.6%		0.9%	30	7.4%			
9	23	7.8%	2	1.8%	25	6.2%			
7	42	14.3%	m	2.7%	45	11.1%			

1. Information missing on 15 persons.
2. Information missing on 63 persons.

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Table 4-3-D Other Physical Related Variables - Males, Homestead vs. MacDill/Shaw

	Homestead (N=276)	N=276)	MacDill/Shaw ($N=157$)	(N=157)	Homestead and MacDill/Shaw (N=433)	and (N=433)	Homeste	Homestead vs. MacDill/Shaw	I/Shaw
Variable	Number of Subjects	Percent	Number of Subjects	Percent	Number of Subjects	Percent	DF	**	Prob
I Was Concerned for My Safety								43.847	8
-	128	33.2%	682	68.7%	155	42.9%	>	710.01	99.0
2	33	12.6%	12	12.1%	45	12.5%			
3	26	6.6%	7	7.1%	33	9.1%			
4	34	13.0%	9	6.1%	40	11.1%			
5	28	10.7%	1	1.0%	29	8.0%			
9	21	8.0%	2	2.0%	23	6.4%			
7	33	12.6%	. 3	3.0%	36	10.0%			

Information missing on 14 persons.
 Information missing on 58 persons.

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Table 4-3-E Other Physical Related Variables - Females, Homestead vs. MacDill/Shaw

	Homestead $(N=33)$	(N=33)	MacDill/Shaw (N=18)	(N = 18)	Homestead and MacDill/Shaw (N=51)	law (N=51)	Homestead	Homestead vs. MacDill/Shaw	l/Shaw
Variable	Number of	Percent		Percent	Number of Subjects	Percent	DF	X	Prob
	Subjects		Subjects						
I Was Concerned fo My Safety							9	19.307	0.004
	71	21.9%	122	92.3%	19	42.2%			
2	4	12.5%	0	%0	4	8.6%			
8	9	18.8%		7.7%	7	15.6%			
4	3	9.4%	0	%0	3	6.7%			
'n	-	3.1%	0	%0	-	2.2%			
9	2	6.3%	0	%0	2	4.4%			
7	6	28.1%	0	%0	6	20.0%			

1. Information missing on 1 person.
2. Information missing on 5 persons.

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Table 5-A. MANOVA for IOE and SCL, Males vs. Females, Homestead

Variables	Number of Subjects	Wilks'λ	F	Num DF	Den DF	Pr > F
AioeInt, AioeAvd Gender Effect	299	0.97999297	3.0215	2	296	0.0502
CioeInt, CioeAvd Gender Effect	304	0.99196076	1.2197	2	301	0.2968
Som, Anx, Dep, Hos Gender Effect	306	0.98146013	1.4215	4	301	0.2267

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Table 5-C. MANOVA for IOE and SCL, Males and Females, Homestead vs. MacDill/Shaw

Variables	Number of Subjects	Wilks' \(\lambda\)	F	Num DF	Den DF	Pr > F
AioeInt, AioeAvd Site Effect	472	0.60658854	152.0882	2	469	0.0001
CioeInt, CioeAvd Site Effect	473	0.79307575	61.3147	2	470	0.0001
Som, Anx, Dep, Hos Site Effect	480	0.95443949	5.6686	4	475	0.0002

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Table 5-D. MANOVA for IOE and SCL, Males, Homestead vs. MacDill/Shaw

Variables	Number of Subjects	Wilks' λ	F	Num DF	Den DF	Pr > F
AioeInt, AioeAvd Site Effect	433	0.62120925	128.0503	2	420	0.0001
CioeInt, CioeAvd Site Effect	422	0.80255604	51.5410	2	419	0.0001
Som, Anx, Dep, Hos Site Effect	429	0.96495692	3.8495	4	424	0.0044

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Table 5-E. MANOVA for IOE and SCL, Females, Homestead vs. MacDill/Shaw

Variables	Number of Subjects	Wilks' λ	F	Num DF	Den DF	Pr > F
AioeInt, AioeAvd Site Effect	49	0.45696135	27.3325	2	46	0.0001
CioeInt, CioeAvd Site Effect	51	0.70876405	9.8618	2	48	0.0003
Som, Anx, Dep, Hos Site Effect	51	0.79375603	2.9881	4	46	0.0283

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Chapter 3

Measuring Gender Effects on the Stress Response of Health Care Workers to an Air Disaster: The Importance of Sample Size & Multimodal Assessment

Richard S. Epstein, Carol S. Fullerton, & Robert J. Ursano

INTRODUCTION

There have been conflicting reports regarding the effects of gender on the incidence of Posttraumatic Stress Disorder (PTSD) following exposure to trauma. Several studies on large samples from both military and civilian populations suggest that women are more likely to develop PTSD (Wolfe, Brown, and Kelly 1993; Breslau, Davis, Andreski, et al 1991; Shore, Vollmer, and Tatum 1989). Although other reports showed no gender differences in PTSD prevalence following trauma, in most instances they were based on lower sample sizes that carried a higher beta, i.e., a probability of type II (false negative) error (Hovens and Falger 1994; Kulka et al 1988; Madakasira and O'Brien KF 1987). Table 1 compares the results of these studies showing rates of PTSD by gender, reported sample sizes, calculation of the probability beta of a false negative error, and the required sample size in a balanced design (the number of male respondents being equal to the number of females) to achieve a probability beta = 0.2.

The National Vietnam Veterans Readjustment Study (NVVRS - Kulka et al 1988) had sufficient sample size with very low beta, and revealed a higher rate of PTSD among male veterans with high war zone exposure than female veterans with similar exposure. It can be argued that comparing PTSD rates in men versus women using data from the NVVRS is inappropriate because highly exposed men

consisted primarily of combat troops, while most women who had high war zone exposure served as military nurses. On the other hand, many female nurses serving in Vietnam were exposed to direct combat conditions such as mortar attacks. They were also more likely to have been older at the time of service, to have held higher rank, and to have received more education than the male combat troops they attended. Thus it is possible to consider the NVVRS as an example of how other variables known to affect risk for PTSD may be accidently correlated with gender in a particular study population It provides a good illustration of one of the problems confounding the study of gender effects on stress.

PTSD outcome studies based on smaller samples also show divergence of outcome by gender (Perconte et al 1993 women's PTSD scores were higher; Feinstein and Dolan 1991 - no gender differences were found; Roca et al 1992 - no gender differences were found; Ross and Wonders 1993 - no gender differences were found). Research endeavoring to assess psychological measures of stress response aside from PTSD, has shown similar discrepancies regarding the role of gender (Kessler and McLeod 1984; Rosario et al 1988; Klingman and Kupermintz 1994; Bar-Tal, Lurie, and Glick 1994; Lurie, Bar-Tal, and Glick 1995; Rahav and Ronen 1994 Schwarzwald et al 1994; Al-Issa and Ismail 1994; Hall and Jansen 1995 Vrana and Lauterbach 1994), as do studies of

physiological response to stress (Shore, Volmer and Tatum 1989; Shalev et al 1993; Grossman and Wood 1993; Llabre and Hadi 1994; Yehuda et al 1995).

A number of non-biological factors might explain why females are found in some studies to suffer a greater incidence of PTSD following trauma. These include differences in population selection or sampling, differences in the nature of traumatic exposure across studies, use of divergent outcome measures, differential reporting bias among samples (i.e. women in some samples might be more willing to admit to symptoms than men), and failure to control for the effects of other variables correlated with gender, that might play a more relevant role in causation.

Factors known to have a particularly strong impact on stress response, and particularly likely to be more prevalent in women include: differential social learning during childhood development (Jacklin and Reynolds 1993; Lott and Maluso 1993), childhood sexual abuse (Zerbe 1995), spousal abuse (Magruder, Croutharmel, Mays, et al 1995), sexual harassment in the workplace, and feeling less in control at one's workplace (Hall 1989). According to Wenegrat (1995), the increased risk women face for many psychiatric disorders such as dissociative disorders, anxiety, conversion symptoms, depression, and eating disorders, result primarily from the fact that they are more likely to have been excluded from power in critical societal role functions.

In the course of analyzing results from a study of military health care workers following an air disaster, we discovered that one of two sub-samples of women appeared less likely to develop PTSD than the other. Both groups were studied with the same battery of psychological and demographic measures in prospective fashion over an 18 month period. Despite a relatively low sample size with an attendant high probability beta, The observation of consistent differences in a variety of other stress related measures between the two sub-groups indicated that reporting our findings would be instructive in the future design and interpretation of research on the role of gender in relation to risk for PTSD.

METHOD

A midair collision occurred at the annual Ramstein Air Force Base air show, Flutag, on 8/28/88 (time 0). Seventy of the 300,000 spectators watching the event were killed and 500 were injured. The dead included 8 children under 14 years of age, 4 youths between 14 and 18, 46 men, and 12 women. Dead and injured victims were lying on the ground. This created pandemonium at the scene. Dead and injured were everywhere. Most of the injured victims suffered burns. As the result of valiant efforts, all injured were evacuated within 90 minutes to approximately 20 area hospitals.

Rescue workers from two military bases, Ramstein AFB and Landstuhl Army Regional Medical Center (N=254), were surveyed approximately 2 months after the Ramstein AFB disaster (Time 1; October-November, 1988) and again at approximately 6 months (Time 2; March-April, 1989), 12 months (time 3; September, 1989), and 18 months (time 4; April, 1990). We refer to this first sample as "early responders."

In order to enlarge our sample size, an additional group of rescue workers denoted as "late responders," working at the same two bases (N=101), were surveyed only at times 2, 3, and 4. The combined sample included 355 subjects. Sampling methods differed somewhat at the two locations. Workers at the health clinic at Ramstein AFB were approached at time 1 by a military psychologist who distributed surveys to health workers by depositing them in their mailboxes, and later retrieved the surveys from subjects. At Landstuhl Army Hospital, which is a more comprehensive medical facility, a senior non-commissioned officer administered time 1 surveys to health workers on a day when all were required to come for their flu shots. The percentage of early responders (80.2%) at Ramstein was significantly greater than at Landstuhl (67.1%) (DF=1, chi-sq=6.69, p=.01). Breaking this difference down by gender showed that this difference was due to the fact that there was a significantly higher percentage of women who were early responders at Ramstein (88.1%) than at Landstuhl (65.1%) ((DF=1,

Chi=Sq=7.47, p=.006). The corresponding percentage of male early responders at Ramstein (76.0%) was not significantly different than at Landstuhl (68.0%) (DF=1 Chi-sq=1.58, p=.21).

At time 2, a more intensive effort was made to recruit subjects by depositing surveys in mailboxes (at both institutions). The second sample, referred to here as "late responders" were assessed at times 2, 3, and 4, only. Both sub-samples were clearly subject to selection bias. For example, it is probable that those individuals at Landstuhl privileged to possess a mailbox were more likely to be of higher rank, and less likely to come for their flu shot at the time 1 sampling.

Probable PTSD cases were identified using a multi-method with self-administered scales that have shown an acceptable level of sensitivity and specificity (Ursano, Fullerton, Kao et al, 1992, 1995). This method employs scores from the Symptom Checklist-90 Revised (SCL-90-R; Derogaitis, 1983) augmented by 13 additional items created to cover all DSM III-R symptoms of PTSD, and from the total Impact of Events Scale (IES; Horowitz et al 1979). Subjects were classified as probable PTSD if they met DSM-III-R PTSD symptom distribution criteria on the augmented SCL-90-R, and scored 20 or higher on the IES.

Subjects were asked open-ended questions regarding their emotional reactions to the disaster and its aftermath at time 1 and time 2. By rating their written answers, we able discern five

categories of emotional response that included feeling depressed/sad, anxious/frightened, guilty, numb/zombie-like, and disbelief/confusion. The Zung self-rating Depression Scale (Zung 1965, 1967, 1969) was employed at times 2, 3, and 4, as a measure of depression. The Minnesota Multiphasic Personality Inventory PTSD Scale (MMPI-PTSD; Keane et al 1984) was administered at times 3 and 4 as another measure of PTSD symptomatology separate from our primary measures. The Hardiness Scale (Bartone 1991, Wiebe 1991) was administered either at time 1 or time 2 to subjects in order to assess the relationship between "resiliency" traits early in the course of the study and later outcome.

In order to assess the effects on outcome of both pre and post-disaster stressful life events, apart from exposure to the focal trauma of the air disaster and its aftermath, we administered the Recent Life Events scale (RLC; REFERENCE) at times 2 and 4. Measurements for the pre-disaster period at time 2, inquired about the number of stressful events during the 4 months prior to the crash. Also at time 2, we measured the total number of RLC events experienced by subjects during the 6-8 month period immediately following the disaster. At time 4, we surveyed subjects regarding the total number of RLC events they experienced during the 10-12 month period between April, 1989 and April, 1990 (6 - 18 months post-disaster).

In view of evidence that social support may exert a protective effect on outcome following trauma, subjects were queried about their perceived levels of social support from friends or family at times 1,2, and 4. Similarly, subjects were surveyed about the presence of alcohol abuse at time 2, by use of the Michigan Alcohol Screening Test (MAST), because of evidence of significant correlations between exposure to trauma and alcohol use.

Subjects were queried about their health care work with disaster victims including child patients, burn patients, emergency room work, dead bodies, and patients who later died. Other questions surveyed the subjects' proximity to the actual disaster scene, worry about family members, and whether they had an opportunity for debriefing.

Statistical analysis employed SAS-VMS, version 6.1. Since most variables had a highly skewed distribution that failed to meet assumptions of normality, non-parametric tests for statistical significance were used in most instances. In cases where differences between means of a variable were compared using the SAS General Linear Model (PROC GLM) module, differences were assumed significant only when confirmed by a Wilcoxon Rank Sum Test. The probability of type II error (beta) for Chi-Square or Analysis of Variance contrasts, optimal sample sizes, and the results of Monte Carlo trials were calculated using Statistical Power Analysis (Borenstein and Cohen 1988).

RESULTS

A total of 355 respondents returned valid surveys. Forty-two (13.5%) out of 311 individuals with non-missing data met criteria for PTSD on at least one of the three survey times between 6 and 18 months. In the overall sample, 17.1% of women and 11.3% of men met criteria for PTSD at some point during the assessment period. For the total sample, this difference was not statistically significant (DF=1 Chi-Square=2.07 p=.15, probability beta=.71). Table 2 summarizes the 18 month prevalence of PTSD according to gender and sub-sample membership, probability betas for false negative findings, and the upper and lower range of percentage PTSD differences found between men and women in 100 Monte Carlo trial simulations of random samples taken from a hypothesized population with the same percentage breakdown of PTSD by gender as found in our study. Table 3 shows the breakdown of respondents according to gender, diagnosis, location and time of initial assessment,

The observed differences in PTSD prevalence between men and women depending on subjects' work location, and early versus late responder status, suggested that sampling played an important role in whether this effect was observed. For example, women in the early responder group had a significantly higher 18 month PTSD prevalence than early responder men (women - 20.5% versus men - 9.5%, Chi-square 5.13, DF=1, p=.02). We found no

significant difference in PTSD prevalence between men and women in the late responder group (women - 8.8% versus men - 14.9%, Fisher Exact Test two tail, p=.54) although there was a high probability of type II error (probability beta=.93). With regard to subjects' place of work, we found that women in the late responder group were significantly more likely to be working at Landstuhl than at Ramstein (Landstuhl - N=29, 85.3% versus Ramstein - N=5, 14.7%; Fisher Exact Test two tail, p=.006).

In view of the high statistical probability that we could have failed to find a significant difference between late responder men and women because of low sample size, we examined the relationship of responder status and occupational location with other variables that were likely to be related to PTSD.

between various demographic, exposure, and test score variables with 18 month PTSD prevalence. On these analyses the following variables correlated significantly with PTSD: younger age, enlisted rank, lower education, single or divorced status, work with burn victims, work with child victims, exposure to dead bodies, death of one's own patients, a high IRI score, a low Hardiness score, a high Michigan Alcohol Screening score (MAST), a high PTSD score at times 2-4, the number of other stressful life events from 2-6 months post-disaster or from 6-18 months post-disaster, low perceived social support from either friends

or family at times 2 or 4, a high Zung Depression score at times 2-4, and a report by the subject of having felt anxious or numb or "zombie-like" after the disaster.

Multivariate logistical regression analyses were conducted to control for intercorrelation between variables, employing variables that were clinically meaningful for prospective prediction of PTSD. The variables fitting the best logistic model predicting 18 month PTSD prevalence included: the number of stressful post-disaster events between times 2 and 4, working with burn victims, and lower educational status. These same variables along with lower scores on the Hardiness Scale entered the best model predicting chronic PTSD, the latter defined in study as being identified as a PTSD case at 12 or 18 months. The Zung Depression Scale and the Keane MMPI-PTSD scale were also good "predictors" of PTSD, but were entered into separate models because of their high correlation with current PTSD symptomatology. The detailed results of logistical analyses will be presented in a separate publication.

As outlined in Table 5, Chi-Square or Fisher Exact Test contrasts showed that for men and women combined, late responders as a group regardless of sex, were more likely to be older, better educated, more likely to be married, more likely to have been exposed to dead bodies, less likely to have been at the site of the crash, and less likely to have felt numb or "zombie-like" afterwards. In terms of effects by gender, multivariate logistic

regression analyses showed that late responder women were significantly more likely than early responder women to have at least some college education (Wald Chi-Sq=6.68, p=.01, Odds Ratio - OR=2.5), and more likely to have been exposed to dead bodies following the disaster (Wald Chi-Sq=4.2, p=.04, OR=2.7). Logistic regression also revealed that late responder men were more likely to be married than early responder men (Wald Chi-Sq=9.2, p=.003, OR=4.8), less likely to have been at the site of the crash (Wald Chi-Sq=4.7, p=.03, OR=0.46), more likely to have been exposed to dead bodies (Wald Chi-Sq=6.9, p=.008, OR=2.6), and less likely to have felt numb or "zombie-like" after the disaster (Wald Chi-Sq=4.4, p=.04, OR=0.11).

Despite the high risk of false negative error, we suspected that late responder women were more similar to men than the early responder men with regard to symptomatic response to the disaster. For this reason, we examined sub-groups for differences on continuous measures of stress response within the 18 month study period. Such measures included the 12 month average Intrusion and Avoidant sub-scores of the Impact of Event Scale (IES) (times 2-4), 12 month average augmented SCL-90-R PTSD scores (times 2-4), the Keane-MMPI PTSD scale (time 3 and time 4), the Zung Depression Scale (times 2-4), the Hardiness score, and the Recent Life Events scores for time 0-2 and time 2-4. These findings are reviewed in Tables 6 and 7.

As expected from the fact that IES scores form one of the bases of our multi-method approach to identifying PTSD cases, early responder women scored higher on their 12 month average IES intrusion subscale compared to early responder men ((X=10.7 versus 8.9; DF=1,210, F=4.5, p=.03). They also scored significantly higher than late responder women (X=10.7 versus 7.3; DF=1,116, F=6.2, p=.01). Similarly, early responder women scored higher on their 12 month average IES avoidant scores compared with early responder men (X=10.9 versus 8.0, DF=1,210, F=8.8, p=.003), and higher than late responder women (X=10.9 versus 7.7; DF=1,116, F=4.6, p=.03). Early responder women also scored higher on the Recent Life Events scale for the period from time 2 to time 4, compared to early responder men (X=6.6 versus 5.1, DF=1,124, F=4.2, p=.04). (See tables 6 and 7).

Early responder women scored significantly higher on 12 month average SCL-90-R PTSD scores than early responder men (X=7.6 versus 4.6, DF=1,252, F=8.8, p=.003). Although early responder women had higher mean 12 month SCL-90-R PTSD scores than late responder women (X=7.6 versus 6.1, DF=1,123, F=0.8, p=.37, probability beta=.86), these differences were not found to be significant. Obviously, the risk for false negative result was quite high in the latter comparison.

Early responder women had a significantly higher Keane
MMPI-PTSD scores at time 3 in comparison with late responder
women (X=9.55 versus 4.9, DF=1,65, F=4.7, p=.03). Early responder

women also had higher Keane MMPI-PTSD scores at time 4 than late responder women, but this failed to meet statistical significance (X=8.8 versus 5.0, DF=1,62, F=2.7, p=.11, probability beta=.62).

On the Zung Depression Scale, early responder women scored significantly higher than late responder women at time 3 (X=42.7 versus 36.3, DF=1,65, F=5.2, p=.03). Early responder women's Zung scores were also higher than late responder women at time 4 (X=41.2 versus 34.7, DF=1,64, F=4.3, p=.04), but this missed confirmation of significance by the Wilcoxon Rank Sum Test (Z=-1.85, p=.07). Early responder women also scored higher than early responder men on the Zung Depression Scale at times 2, 3 and 4 (see tables 6 and 7). Late responder women differed from late responder men only on the Recent Life Events score for time 0 to time 2 (X=4.4 versus 3.0, DF=1,99, F=4.9, p=.03). Late responder men had lower intrusion scores than early responder men (X=6.7 versus 8.9, F=8.0, p=.005).

There were no differences in Hardiness scores among subgroups with regard to gender or early versus late response to the survey.

DISCUSSION

The exigencies of disaster research make it extremely difficult to obtain sufficiently large systematic or random samples, and even harder to achieve a balanced design for

contrasting risk differences based on gender. It is therefore hard to replicate a sampling method from one population to another, or to account for all of the factors that might bias selection. This was certainly the case in our study, where approximately one third of our population was not sampled at time 1, and differed markedly from the rest of the respondents on a number of demographic measures known to affect response to trauma, such as education (Breslau et al 1991), intelligence (McNally and Shin 1995), age, job status, or marital status. Within our group of late responders, women evidenced no greater chance of developing PTSD than men, and no differences in other stress-related measures.

Late responder women in our study appeared more similar to late responder men than to early responder women. The latter sub-group evidenced many differences on a variety of stress measures from the rest of the sample. Despite the high probability beta present in many of the comparisons, our findings suggest that sampling differences resulted in a differential response to stress among the two groups of women that was statistically related to late responder women having a level of education. Although late responder women (and men) were less likely to be at the actual site of the disaster, they were no less likely as health care workers to be exposed to the grotesque injuries suffered by burn victims and children. They were more likely than early responders to have been exposed to dead bodies.

A more complete understanding of gender effects on PTSD requires accounting for other factors likely to be incidentally associated with gender in a particular study. As previously cited in the NVVRS (Kulka et al, 1998), female Vietnam nurses exposed to high war zone stress had more education and higher rank than male combat troops. The NVVRS is a problematic example because of the difficulty equating combat exposure with military nursing. A better comparison is found in the work of Bar-Tal, Lurie and Glick (1994). They studied the perceived level of war-related and work-related stress exposure, coping methods, and measured psychological distress of Israeli army officers and Non-commissioned Officers (NCO's) as well as a group of civilian females. Female army officers reported higher levels of perceived stress than male officers and female civilian controls, but demonstrated more active behavioral coping. Although female officers' social support seeking was more effective than the other two groups, their active behavioral coping was no less effective than the male officers. After controlling for the level of perceived stress exposure, both female and male officers suffered from lower psychological distress measures than the female civilians. Controlling for the interaction between the measured variables showed that the female officers were more similar to their male counterparts than to the female civilians, suggesting that their coping behavior was more related to their role as army officers than to their sex. Using similar measures with a group of 350 Israel enlisted soldiers (women= 200; men =150), the same investigators (Lurie, Bar-Tal, and Glick 1995)

found that females suffered higher levels of stress and psychological symptoms, suggesting that enlisted as opposed to officer status may have played an important interactive role with gender in stress response.

A possible explanation for the differences found in our study between late and early responder women is that the former were more experienced in a variety of ways with regard to dealing with the types of trauma the Ramstein Air disaster presented. Training provides an inner sense of control that offers a way of "metabolizing" horrifying and shocking images (Hall 1989). For this reason, future studies that address gender effects on outcome after trauma, should take into account the unexpected effects of sampling methods, the age, maturity, education, training level and sense of control experienced by respondents when exposed to trauma. In view of way that the probability of type II errors limited the reliability of some of the negative contrasts related to gender effects in our study, future studies should carefully attend both to sample size, and to multiple methods of stress assessment.

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TABLE 1

COMPARISONS OF TYPE II (FALSE NEGATIVE) ERROR AND SAMPLE SIZE IN STUDIES REPORTING RATES OF PTSD BY GENDER

			WEN		MOMEN		CHI-SQ., OR	PROB OF	N1 AND N2
 CATECODY OF STUDY	PAITHOR	TRAUMA POPLII ATTON	SAMPIF N.	PISD N	SAMPLE No	OSIA (E)	FISHER EXACT	(BETA)	REQUIRED FOR 1
]=					
	HOVENS ET AL 1994	DUTCH RESISTANCE	089	186 (27,3)	144	29 (20.1)	.07, N.S.	. 55	546, 546
STUDIES SHOWING NO GENDER DIFFERENCE IN		FIGHTERS WHII							
PTSD RATE, OR MEN GREATER THAN WOMEN	KULKA ET AL, 1988	VIETNAM VETERANS HIGH EXPOSURE	406	125 (30.8)	170	23 (13.5) .001	1.001	8.	69, 69
			. —	· 				•	· —
	MADAKSIRA & O'BRIEN,	TORNADO VICTIMS		18 (62)	28	51 (62)	N.S.	. 76.	754, 754
STUDIES SHOWING	BRESLAU ET AL, 1991	URBAN HMO ENROLLEES	386	23 (6.3)	621	70 (11.3)	500.	23	288, 588
WOMEN WITH				-					
THAN MEN	WOLFE, BROWN, &	PERSIAN GULF							
. ——	KELLY, 1993	VETERANS	2136	83 (3.9)	508	(1.6) 61	1.00	71.	352, 352
								,	
. — —	SHORE, VOLLMER, &	MOUNT ST. HELENS	274	2 (0.72)	274	10 (3.6)	9.	. 8 4 .	329, 329

N.S.: NOT SIGNIFICANT

1: CALCULATION BASED ON ASSUMING A 7 POINT DIFFERENCE IN PTSD PERCENTAGE BETWEEN MEN AND MOMEN.

2: BASED ON MISSISSIPI PTSD SCALE SCORES

3: BASED ON CHI-SQUARE WITH YATES CORRECTION

TABLE 2. 18 MONTH PREVALENCE OF PTSD ACCORDING TO GENDER AND SAMPLING SOURCE

	_			_						RANGE OF A PTSD DIFFERENCE
							Within row	Within row	Within row	BETWEEN WOMEN AND MEN
Number of Cases	Men (X)	(X)	Women	Women (%)	Total		Chi-square*	Probability*	Beta	IN 100 MONTE CARLO TRIALS
							٠			UPPER LOWER
PTSD, total sample	- 53	(11.3)	8	(1.71)	- 45	(13.5)	2.07	.15, N.S.	۲۲.	+17%, -6%
PTSD, early responders	- <u>1</u> -	12 (9.5)	17.	(20.5)	² 62	(13.8)	5.13	.02	14.	+23%, -3%
PTSD, late responders	_ 0	(14.9)	" en	(8.8)	13°	(12.9)	*	.54. N.S.	93	+15%, -18%
PTSD, Ramstein	 °e	(14.5)	"a	(20.5)	- - -	(16.7)	0.65	.42, N.S.	88.	+25%, -17%
PTSD, Landstuhl	°21	12 (9.6)	12	(15.4)		(11.8)	 23:	.21, N.S.	11.	+19%, -7%

percentage prevalence of PTSD differentiating male and female sub-groups on the same row. * Chi-squares and probabilities in last two columns refer to contrasts between

N.S.: Not significant.

** Fisher Exact Test, two tailed

A,C,D,E,F: No signifigant difference between percentages sharing the same letter.

sizes required to show a significant difference for contrast between late responder women and early responder women would be 160 in both groups. B: Fisher Exact Test (two tailed), p=.42, (not signficant). Probability Beta=.75 (calculated on Chi-Sq with Yates correction). The required sample

1: Calculated on the basis of Chi-square test with Yates correction.

TABLE 3. BREAKDOWN OF SUB-SAMPLES BY TIME AND LOCATION OF RESPONSE

Reponse	Sample		Men		Momen	Men	Men and women
type	location	Numbe	Number (%)	Numb	Number (X)	Number	r (X)
Early	Ramstein		60 (37.0)	37	(40.7)	6	(38.2)
Kesponders	 Landstuhl	102	(63.0)	3	(59.3)	157	(61.8)
Subtotal		162	162 (70.7)	16	(72.8)	254	(100.0)
Late	Ramstein	- 6	19 (28.4)	ν	(14.7)	24	(23.8)
Responders	Landstuhl		48 (71.6)	53	(85.3)	12	(76.2)
Subtotal		67	(29.3)	क्ष	(27.2)	ē	101 (100.0)

Chi-Square = 1.58, DF=1, p=.21 N.S. Ä

There was no significant difference in percentages of early versus late response status between workers at Ramstein and Landstuhl.

B: Fisher Exact Test (two tail), p=.006.

Momen at Ramstein were significantly more likely to be early responders than women at Landstuhl.

Ch1-Square = 6.69, DF=1 p =.010. ت

There was a significantly higher percentage of early responders at Ramstein than at Landstuhl in the overall sample.

TABLE 4. SPEARMAN RANK ORDER CORRELATIONS OF SELECTED VARIABLES WITH PTSD

Variable	Rank order correlation with PTSD
Age Sex female vs. male Race white vs. other Education high school vs. college Enlisted rank vs. officer Married vs. single or divorced	122 * .082 n.s045 n.s200 *** .200 ***
Worked with burn patients Worked with child victims Exposed to dead bodies One's patients died Emergency room work Worked at disaster site	.165 ** .162 ** .124 * .141 * .083 n.s051 n.s.
Early vs. late response Work at Landstuhl vs. Ramstein	.013 n.s 067 n.s.
Total IRI score Total Hardiness score Michigan Alcohol (MAST) Score Marlowe Crowne score Keane PTSD-MMPI score (T3) Keane PTSD-MMPI score (T4)	.184 *123 * .200 ***090 n.s .554 ***
Recent life events (T0-T2) Recent life events (T2-T4) Social support friends (T2) Social support family (T2) Social support family (T4)	.275 *** .221 ** 140 * 190 ** 287 ***
Zung Depression Scale (T2) Zung Depression Scale (T3) Zung Depression Scale (T4)	.401 *** .515 *** .486 ***
Felt anxious Felt numb or "zombie-like"	.138 * .144 *

_	<pre>= not significant</pre>	T0 = Time of disaster
		T2 = Time 2 (6 months)
*	p <.05	T3 = Time 3 (12 months)
**	p < .01	T4 = Time 4 (18 months)
***	$\bar{n} < .001$	T4 = Time 4 (10 months)

TABLE 5. COMPARISON OF LATE RESPONDERS TO EARLY RESPONDERS BY GENDER: PERCENT OF RESPONDENTS IN EACH CATEGORY

	Late	Late responders		Early r	Early responders	
Variable			Combined			
	Men	Momen	men and women	Men	Momen	men and women
Age less than 29	22.4%	38.2%	27.2%	37.7%	55.0%	44.1%
High school education or less	6.5%	0.0%	4.0%°	15.6%	14.3%	15.1½ ^c
Caucasian	79.1%	85.2%	81.2%	75.8%	75.8%	75.5%
Worked with burn victims	59.7%	61.8%	60.4 %	53.7%	52.2%	53.4%
Married	92.47 2. B	58.5%	81.0%	72.5%	45.5%	62.7%
Enlisted rank	54.6%	51.5%	53.5%	70.7%	68.5%	70.0%
Worked with child victims	44.8%	17.77	35.6%	37.3%	34.4%	36.1%
Exposed to dead bodies	32.8%	32.4%	32.7%	23.1%	16.5%	21.0%
Had patients die	32.8%	30.3%	35.6%	31.4%	19.3%	36.1%
Was at the site of crash	25.8%	20.6%	24.0%	38.1%	29.74	34.9%
Worked in Emergency Room	38.8%	32.4%	36.6%	36.0%	28.9%	33.3%
Felt anxious or frightened	3.0%	17.72	7.9%	3.2%	14.4%	7.3%
Felt numb or zombie-like	1.5%	2.9%	2.0%	13.2%	18.9%	15.2%
Michigan Alcohol Score > 5	20.9%	23.5%	21.8	21.0%	18.7%	20.1%

Differences not linked by a common superscript within a given row were not found to be statistically significant.

Items sharing a common numerical superscript denote significant differences between males and females within early or late response categories. Items sharing a common alphabetical superscript denote significant contrasts across response categories (e.g., late response men versus early response men). Items with significantly higher percentages in a given comparison are underlined.

Chi-square or Fisher Exact Tests:

K: p=.02	L: p=.00009
I: p=.05	J: p=.003
G: p=.004	H: p≖.02
E: p=.001	F: p=.03
C: p=.002	D: p=.0007
A: p=.02	B: p=.01
5: p=.03	6: p=.003
3: p=.007	4: p=.05
	2: p=.0001

TABLE 6. COMPARISON OF MEN AND MOMEN ON MEASURES OF STRESS GROUPED BY SUB-SAMPLE

	-	Mose of the State	991		Wean	Mean values		
	Late	Late responders	ers		Early	Early responders	"	
Variable				*				* a
	Men	Momen	L.	value	Men	Women		value
MMPI-PTSD Scale Time 3	7.8	.6 4	2.38	n.s.	6.9	9.6	2.75	
MMPI-PTSD Scale Time 4	8.5	5.0	2.61	n.s.	6.2	8.8	3.20	s.c
Zung Depression Time 2	38.8	41.4	1.51	s.	38.8	41.9	3.73	-00
Zung Depression Time 3	39.8	36.3	1.68	. s.	37.0	42.7	8.30	.005
Zung Depression Time 4	39.5	34.7	2.51	n.s.	36.1	41.2	7.81	900.
IOE Intrusion (average)	6.7	7.3	0.27	n.s.	6.8	10.7	2. 2	.03
IOE Avoidant (average)	7.1	7.7	0.16	. s.	8.0 ====	10.9	8.80	.003
SCL-90-R PTSD (average)	6.4	6.1	0.02	n.s.	9.4	7.6	8.78	
Other stressful events 6 months post crash	3.0	4.4	4.93	.03	-===	3.4	0.45	
Other stressful events 6 to 18 months post crash	7.3	2.0	2.47		-===	9.9	4.19	¥.
Hardiness Scale	60.1	61.1	0.40		61.4	61.2	0.04	n.s.

n.s.: Not significant

* All significant p values are also significant using the Wilcoxon Rank Sum Test.

Underlined items denote a significantly higher percentage scoring on a given variable comparing men versus women within a given sub-sample (late or early responders).

TABLE 7. COMPARISON OF WITHIN GROUP MEASURES STRESS ACCORDING TO EARLY OR LATE RESPONSE STATUS

	Mea	Mean values	_		Mean	Mean values		
		Men			*	Women		
Variable				* •				* -
	Late	Early	4	value	Late	Early	<u>_</u>	value
MMPI-PTSD Scale Time 3	7.8	6.9	0.32	. s.	6.4	9.6	4.71	.03
MMPI-PTSD Scale Time 4	8.5	6.2	2.33	. s.	5.0	8.8	2.68	. s.
Zung Depression Time 2	38.8	38.8	0.0	·	41.4	41.9	9. 8	. s.
Zung Depression Time 3	39.8	37.0	1.95	·s.	36.3	42.7	5.19	.03
Zung Depression Time 4	39.5	36.1	3.22	n.s.	¥.7	41.2	4.28	¥.
IES Intrusion (average)	6.7	8.9	8.02	500:	7.3	10.7	6.24	<u> </u>
IES Avoidant (average)	7.1	8.0	0.83	.s.	7.7	10.9	4.60	
SCL-90-R PTSD (average)	6.4	4.6	2.39	. s.	6.1	7.6	98.	s.c.
Other stressful events 6 months post crash	3.0	3.1	0.0			3.4	3.10	
Other stressful events 6 to 18 months post crash	7.3	5.1	5.36	s.	2.0	9.9	2.65	.; .;
Hardiness Scale	60.1	61.4	1.25		61.1	61.2	0.0	.s.

* All significant p values are also significant using the Wilcoxon Rank Sum Test.

Underlined items denote a significantly higher percentage scoring on a given variable comparing late versus early response for each sex.

Chapter 4

Responses in Spouses of Disaster Workers Following the 1989 United Airlines Crash, Sioux City, Iowa

Carol S. Fullerton, & Robert J. Ursano

Responses in Spouses of Disaster Workers Following the 1989 United Airlines Crash, Sioux City, Iowa

Carol S. Fullerton, Ph.D. & Robert J. Ursano, M.D.

VER THE PAST DECADE there has been a plethora of research on trauma and disaster. Increasingly, exposures to trauma and disaster have been linked to psychological and health outcome. Bearing witness to a trauma or being confronted by the traumatic experience of a family member or close friend is now defined as a significant stressor in DSM-IV (American Psychiatric Association 1994). Much less is know about this type of exposure. In particular, we know very little about how those who hear about traumatic events - but who did not witness the actual event. In order to examine this phenomena of exposure through the eyes of a "secondary victim", we examined the spouse/significant others of disaster workers in the Air National Guard who responded to the mass-casualty United plane crash in Sioux City, lowa.

This paper examines the indirect exposure of the Spouse/Significant Others (SSOs) of disaster workers following a mass-casualty airplane crash. This study is unique in that we recruited and examined the acute and long-term impact on the family member who is exposed to the disaster through another. We compared to two matched control groups. The SSOs were not directly exposed to the trauma, but had exposure to their partner who performed disaster work at the site of the crash.

This preliminary study addresses several important issues; (1) Do the SSOs of disaster workers provide support? (2) Do the SSOs of disaster workers receive support from family and friends? (3) Do the SSOs of disaster workers experience psychological and physiological stress? (4) Is providing support associated with psychological distress in the SSOs of disaster workers? and (5) Is the stress of the disaster worker SSO associated with the stress of the disaster worker?

POSTTRAUMATIC STRESS DISORDER

Although PTSD is usually associated with primary exposure to trauma, the family member may also develop PTSD and related symptoms. Prior to the

advent of the DSM-IV (American Psychiatric Association 1994), the DSM-III-R (American Psychiatric Association 1987) stressor criterion for PTSD included "... a serious threat or harm to one's children, spouse, or other close relatives and friends" (pg. 250). The DSM-IV stressor criterion includes "... Events experienced by others that are learned about [such as].... violent personal assault, serious accident, or serious injury experienced by a family member or a close friend; learning about the sudden unexpected death of a family member or close friend...". (pg. 424). Thus, family members of victims as well as of disaster workers who are at risk of injury, are recognized as potential traumatic stress victims.

SUPPORT PROVISION

In addition to the symptoms of PTSD which may result from hearing about a trauma of a family member, support providers are subject to other characteristic symptoms because of their role as support providers (one of the potential stressors inherent in SSOs of disaster workers). It is beyond the scope of this chapter to review in detail this body of literature. For an overall review, we suggest Biegel et al. 1991; and for a review specific to emotional disturbance in the family, see Brody and Sigel 1990.

A substantial amount of research documents the beneficial health effects of receiving psychosocial support from spouses, other family members and friends at times of stress (for reviews see, Cohen and Wills 1985; House et al. 1988). This is true after large scale traumatic events (e.g., Green et al. 1985; Solomon et al. 1989). However, providing support to family members can be stressful for the support provider and puts strain on the family unit, particularly following traumatic event exposure (Shumaker and Brownell 1984; Solomon et al. 1987; Taylor 1990; Fullerton et al. 1993). Although women may be more likely than men to respond in a supportive manner during times of stress (Kessler and McLeod 1984), women may also experience strong social supports as burdensome during these times (Solomon et al. 1987).

Psychiatric Effects of Support Provision. Symptoms associated with the stress of familial support provision include: depression, hostility and anxiety. A number of studies reported elevated rates of depression among support providers when compared to those not providing support matched on age and gender (e.g., Gallagher et al. 1989; Kiecolt-Glaser et al. 1987; Stoller and Pugliesi 1989; Pruncho and Potashnik 1989). The more impaired the patient, the greater the depressive symptomatology in the support provider. Female support providers tended to be more depressed than males. Using the Brief Symptom Inventory (BSI) to assess psychiatric symptoms in support providers of dementia patients, Anthony-Bergstone et al. (1988) found elevated levels of hostility compared to population norms in both men and women support providers who were young, or

at least 60 years old (vs. those in the middle). High levels of anxiety followed a similar age pattern in the women support providers, but not in the men providing support, and high levels of depression were found only in older women (Anthony-Bergston et al. 1988). Fitting et al. (1986) found higher rates of depression in female vs. male support providers to dementia patients using the Minnesota Multiphasic Personality Inventory (MMPI). In a study of the wives of combat veterans suffering from combat stress reaction and PTSD, Solomon et al. (1991) found increased somatic complaints and psychiatric distress among the wives. Solomon et al. suggested that stress in the wives was associated with the increased responsibility secondary to the husband's illness, and with identification with the husband's symptoms.

Physical Health. Providing support is associated with poorer self-reported physical health. Haley et al. (1987) found that support providers reported poorer overall health and more chronic illness than a group of matched non-support providers. In a survey of 678 elderly people, Satariano et al. (1984) found that ill-health of one spouse was a strong predictor of poor health in the other spouse. The mechanisms which propagate poor health in support providers are unclear. Certainly they include the stress of support provision itself, empathy (Davis 1983), and shared environmental exposure.

Studies of health care utilization in support providers have shown conflicting results. Although studies have found that support providers report more frequent physician visits and more frequent use of prescription drugs than do non-support providers (Haley et al. 1987), other studies have reported no differences in support providers use of medical services (Kiecolt-Glaser et al. 1987). Several studies reported high rates of psychotropic drug use in support providers (e.g., Clipp and George 1990; George and Gwyther 1986). At times, the demands of providing support itself may limit the opportunity to use health care and may result in changes in health behaviors. Pennebaker and colleagues (Pennebaker and Susman 1988; Pennebaker et al. 1988) found a relationship between disclosure of traumatic events, fewer health center visits, and decreased autonomic arousal. Pennebaker suggested that the couple relationship and communication patterns may effect health care utilization and health outcomes.

Psychosocial Responses in Spouse/Significant Others of Disaster Workers

FOLLOWING A PLANE CRASH: A PRELIMINARY REPORT

We conducted a preliminary investigation of the acute posttraumatic stress in the spouse/significant others (SSOs) of disaster workers following a mass-casualty airplane crash, and two matched control groups. The SSOs were not directly exposed to the trauma, but had exposure to their mate who performed disaster work at the site of the crash. In this report we examine the support

provided by disaster worker SSOs, the distress in these SSOs, and preliminary data on the relationship between distress in the SSO and distress in the disaster worker. We are currently analyzing the longitudinal data and additional comparisons which will be reported elsewhere.

THE DISASTER

On July 19, 1989, a United Airlines' DC-10 carrying 297 passengers and crew was forced to crash land at Sioux City, Iowa following a midair explosion which caused complete failure of the plane's hydraulic system. Casualties included 112 people who died and 59 who were seriously injured. Rescue personnel were alerted approximately one-half hour prior to the attempted landing which occurred on an unused runway at the Sioux Gateway Airport. They awaited the attempted landing just off the runways. On landing the plane broke apart and burst into flames. The wreckage was scattered on and off the runway and in adjoining corn and soybean fields. Some victims, still in their seats, were thrown from the aircraft. Others died in the burning of the fuselage. Of the 184 survivors, more than 70 literally walked away from the crash.

CONSULTATION AND RESEARCH TO DISASTER

Our research/consultation group initiated a longitudinal follow-up of the disaster workers and provided consultation to the community. One month following the disaster, 440 surveys were distributed to the Sioux City Air National Guard disaster workers. A total of 212 surveys were completed and returned by the disaster workers (48% return rate). Disaster workers also received surveys for their SSOs, if appropriate. Approximately 70% (n = 148) of the 212 disaster workers who completed the surveys were married. Out of the potential 148 disaster worker SSOs, a total of 133 completed and returned surveys (90% return rate).

Concurrently, we distributed surveys to two comparison groups: (1) Sioux City Air National Guard members who did not participate in the disaster work for a variety of reasons (e.g., away at the time, could not get onto the Base) and their SSOs; and (2) Air National Guard (and SSOs) from Sioux Falls, South Dakota (a similar community 90 miles away, matched for socioeconomic level, geography, urban/rural location and military unit/job). Of the 750 Sioux City non-workers, 102 agreed to participate and completed surveys. Of the 102 non-workers, approximately 70% (n = 71) were currently married. A total of 63 non-worker SSOs (89%) completed and returned surveys. Of the Sioux Falls Air National Guard unit, 428 surveys were completed, with approximately 300 (70%) currently married. A total of 255 Sioux Falls Guard SSOs (85%) completed and returned

surveys. The median completion date, 2 1/2 months post-disaster, did not differ across the study groups.

Assessments. We measured demographic data, prior disaster experience, receiving and giving support, activities with SSO, stress on oneself and family members, medical care utilization, sleep patterns, fatigue immediately following the disaster, identification with disaster victims, and major life events. Standardized and self-report measures were used to assess psychological symptomatology, coping, social support, and other variables.

Subjects. Our preliminary study examined the disaster worker SSOs (N = 135) who completed the one month post-disaster questionnaire and the two matched SSO control groups, the non-worker SSOs (N = 63) and the Sioux Falls SSOs (N = 255). The SSO groups did not differ on demographics (see Table 2) and rate of survey return. The majority of the SSOs were married (most were married to enlisted men), white females in their late 30's (mean age = 38), with at least some college. No difference on socioeconomic status were indicated by homogeneity of education and husbands' rank. However, the percent of SSOs who were employed varied across the disaster worker SSOs, non-worker SSOs and Sioux Falls SSOs, 61%, 50% and 38% respectively; (x2 = (2) 18.995, p<.001).

$R_{\!\scriptscriptstyle \sf ESULTS}$

Support Provided by SSOs. The majority of the disaster worker SSOs reported providing support (83.33%). This was significantly higher compared to 42.62% of the non-worker SSOs and 63.21% of the Controls (chi-square for the 3 groups; x2 = 33.374(2), p<.001) (see Table 3).

Support Received from Family and Friends. Social support from family and friends were assessed separately by self-report Likert scales (1 = unsupportive, 2 = neutral and 3 = supportive). The majority of the worker SSOs reported receiving support from family (83.05%) at the time of the disaster and the week that followed (see Table 3). In the control groups, 73.91% of the non-worker SSOs, and 59.59% of the Sioux Falls SSOs reported receiving support from family. The overall chi square (for the 3 SSO groups) was significant (x2 = 28.704 (4), p<.001). Receiving support from friends was reported by 77.48% of the Worker SSOs, 59.52% of the Non-Worker SSOs and 48.92% of the controls (x2 = 23.948 (4), p<.001).

Intrusive and Avoidant Symptoms: We used the Impact of Event (IES) (Horowitz et al. 1979) to examine the intrusive and avoidant symptoms in the

disaster worker SSOs during the first week post-disaster. The disaster worker SSOs had IES total scores of M = 25.20, SD = 16.43 during the first week post-disaster, compared to the non-worker SSOs (M = 22.22, SD = 15.90), and the Sioux Falls SSOs (M = 13.58, SD = 13.09) (F = 30.20, (2,443), p<.0001). Using the IES thresholds identified by Horowitz (1979) (which correlate with levels of clinical concern: low= <8.5, medium = 8.6-19.0, and high >19.0), 59.54% of the disaster worker SSOs scored in the high level of clinical concern compared to 47.62% of the non-worker SSOs, and 26.59% of the Sioux Falls SSOs (x2 = 51.741 (4), p <.001). These results can be compared to the IES scores reported by Steinglass & Gerrity (1990) for two disaster community samples. Steinglass and Gerrity found that at four months 76% of the population of a community struck by a tornado and 49% of a community struck by a flood scored in the high clinical concern group on the IES.

Self Reported Stress. Self-reported stress during the first week after the crash was measured on a Likert scale from 1 to 7 (1 = none; 7 = high). Mean scores for worker SSOs, non-worker SSOs and Sioux Falls SSOs were: X = 3.88 (SD = 1.57), X = 3.68 (SD = 1.53), and X = 3.26 (SD = 1.49), respectively (F = 7.66, (2,435), p <.001). Post-hoc multiple comparisons (Bonferonni corrected) indicated a significant difference between the worker SSOs and the Sioux Falls SSOs (p = .001). No other pairs differed significantly. The self report measures were moderately to highly correlated with the total IES, intrusion and avoidance scores.

Sleep and Fatigue and Return to Normal Pace. The disaster worker SSOs reported a mean of 6.50 (SD = 1.24) hours of sleep during the week after the disaster. Fatigue the day after the disaster was assessed on a Likert scale (0 = none to 7 = very). Mean fatigue was moderate for the disaster worker SSOs (X = 3.73, SD = 1.82). Of the disaster worker SSOs, 19.08% reported that it took from 1 to 2 days after the plane disaster for symptoms of physiologic stress to subside (e.g., "adrenalin stopped pumping", "pace back to normal"), 21.37% reported taking from 3 to 4 days, 11.45% reported 5 to 6 days, 11.45% reported that it took greater than one week post-disaster to return to a normal pace, and 36.64% reported no change in their normal pace following the disaster.

Health Care Utilization. In order to further assess behavioral measures of physical illness we examined health care utilization. Health care utilization was measured by the number of people seeing a Physician for: annual physical check-ups, physical problems, and emotional problems the past three months. In the worker SSOs, 3.2% reported seeking help for emotional problems, 10.5% obtained annual physicals, and 16.9% saw a physician for physical problems.

Providing Support and Acute Stress (IES). The disaster worker SSOs who provided support had substantial levels of stress 1 week post-disaster. The disaster worker SSOs who provided support had higher total IES and higher

levels of IES intrusive symptoms compared to the disaster worker SSOs who did not provide support (Total IES = 27.0 vs. 18.8; IES Intrusion = 15.7 vs. 10.1, for support providers vs. non-providers, respectively (see Table 4). Avoidant symptoms did not differ significantly in support providers vs. non-providers.

Anxiety and Depression 2 months Post-Disaster. At 2 months post-disaster, 26.7% of the disaster worker SSOs who reported providing support were at the 90th percentile of depression, and 22.2% were at the 90th percentile for anxiety on the SCL-90-R (Derogatis 1983).

Acute IES in the Disaster Worker SSO Compared to that of the Disaster Worker (one week post-disaster). The disaster worker SSO total IES score one week post-disaster was significantly correlated with that of the disaster worker (r = .22, p = .02). Further analyses indicated that the correlation was primarily related to intrusive symptoms, i.e., the SSO level of intrusive symptoms was moderately correlated with that of the disaster worker (r = .27, p = .004). Symptoms of avoidance in the SSO were not correlated with that of the disaster worker.

\mathcal{D} ISCUSSION

Posttraumatic stress in familial support providers following acute trauma has not been well studied. The mechanisms of transmission of posttraumatic stress to familial support providers following acute trauma exposure of a family member are not well understood. The SSOs in this study provide substantial support to the disaster workers and receive support from both family and friends. The disaster worker SSOs also report substantial intrusive and avoidant symptoms and self-reported distress. They report decreased sleep after a disaster and many take several days to weeks to "come back to normal." Little can be said about health care utilization until comparisons can be made with the control groups. Those disaster worker SSOs who report providing support also report substantial distress and more intrusive symptoms than those SSOs who did not provide support. It seems reasonable, therefore, to suggest that exposure as a disaster worker SSO may be a risk factor for psychiatric distress after a disaster. It should be remembered that this disaster, although sudden and unexpected, was not enduring and did not involve substantial separation or direct effects on the SSOs as might be true in wide-spread natural disaster such as an earthquake. Thus, findings of significant distress in this disaster worker SSO group represents nearly pure exposure to the disaster worker as the source of the SSOs distress (i.e. without the confounding effects of other event-related exposure.

Several mechanisms are possible for the distress and potential illness in disaster worker SSOs: (1) fear and anticipated loss secondary to partner's trauma exposure; (2) the demands of providing support itself; (3) non-reciprocal support; (4) recall of ones own past traumatic events; (5) limited attention to own needs for social support/support networks and health care utilization; (6) poor health behaviors; (7) identification with partner's distress; (8) repressed feelings of dissatisfaction or anger at the disaster worker; and (9) experiencing the distress of others in the disaster community (see Table 5).

Posttraumatic Stress and Support Provision in the SSOs of Disaster Workers. Disaster workers are likely to be unprepared for a disaster of substantial magnitude and as a result, needed increased support from their SSOs. The relationship between the disaster workers' expectations of support and the actual support received may be important to subsequent expectations placed on the SSO (Kaniasty et al. 1990), and thus stress in the caregiver SSO and the couple relationship. The psychosocial support given to the disaster worker may not be reciprocated to the SSO. These factors may contribute to the stress in SSO caregivers (Ingersoll-Dayton and Antonucci 1988). The exposure of the disaster worker to threat and death may directly lead to fear and concern over loss and the future in the SSO. Thus, exposure to the disaster worker, the need to provide support to the disaster worker and the vicarious exposure to the disaster may put the support provider at risk for posttraumatic symptoms.

Being close to someone exposed to a traumatic event can be a powerful reminder of earlier stressful or traumatic experiences in our own lives (Holloway and Ursano 1984). Lifton (1993) suggested that the patterns of the survivor's experience may recall in those close to the survivor similar feelings from their own past (e.g., separation and threat). For example, it is difficult to avoid the modern-day media coverage of large-scale disasters and recent warfare. For many, bearing vicarious witness to current traumatic events recalls or reconstructs our own past events. In a similar way, one mechanism of transmission of exposure to traumatic stress from disaster workers to their SSOs is the recall of past stressors.

Physical Health in the SSOs of Disaster Workers. Direct measure of health care utilization along with the more commonly used self-report can provide a more complete picture of health responses following trauma in SSOs of disaster workers. Change in health behaviors (e.g., diet, exercise, and sleep, weight, smoking, and alcohol) are one mechanism by which stress can affect health (Coyne and Holroyd 1982; Wetzler and Ursano 1988). Langlie (1977) found that people with many demands on their time reported feeling a lack of control and perceived the costs of maintaining good health practices as high. This may be particularly true in support providers after a disaster.

Increased alcohol consumption and smoking are also commonly reported by people in high stress conditions as compared to low stress conditions

(Horowitz et al. 1979; Schachter et al. 1977), possibly as self-medication. Findings from the Alameda County Study (Berkman and Breslow 1983; Wingard and Berkman 1985) indicate a positive association between social networks and health behaviors (i.e., hours of sleep, drinking, smoking, physical exercise, and weight (for review, see House et al. 1988). Thus, decreases in social networks themselves due to the demands of support provision may effect health or health behaviors.

Another mechanism for disturbed health in SSOs of disaster workers may be their own posttraumatic stress disorder. Waigandt et. al's (1990) 2 year followup of 51 rape victims found significant differences between the victims and matched controls in current illness symptoms (e.g., high or low blood pressure, severe colds, headaches, stomach pains) measured by the Cornell Medical Index Health Questionnaire. Similarly, the relationship of PTSD and health may be mediated by health behaviors in caregivers. A relationship between PTSD and poor health practices has been found in veterans (Card 1987; Shalev et al. 1990) and in non-veteran community samples (Gleser et al. 1981; Helzer et al. 1987). Helzer et al. (1987) found that those in the general population with PTSD were more likely to have drug and alcohol abuse. Substance abuse is a common comorbid disorder in veteran populations with PTSD (Kulka et al. 1990). Shalev et al. (1990) reported increased cigarette use among individuals with PTSD. In a sample of Buffalo Creek disaster victims, Gleser et al. (1981) found a 44% increase in cigarette smoking, a 52% increase in the use of prescription drugs, along with significantly increased alcohol consumption.

Conclusions

Although none of the SSOs of the disaster workers in our study were direct victims of the plane crash, nor were they exposed to the disaster site, they still showed moderate levels of posttraumatic distress from their exposure via the disaster workers. Future research should examine SSOs to further elucidate the mechanisms or avenues of transmission of stress, altered health, and health behaviors in disaster worker SSOs. This will enable identification of SSOs at high-risk of posttraumatic stress and altered health. The development of interventions to decrease distress in the SSOs will also increase the support available to the disaster workers. The involvement of SSOs in debriefing and education programs for disaster workers after a disaster event may be reasonable first interventions to accomplish these goals.

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Table 1

DEMOGRAPHICS

Disaster Worker SSO, Non-Worker SSO, & Sioux Falls SSO

	Worker S N= 1		Non-Worke N = 63	r SSO	Sioux Fall <i>N</i> = 255	
	Mean	(SD)	Mean	(SD)	Mean	(SD)
A GE	37.73	(9.33)	35.68	(8.72)	37.10	(9.41)
	N	(%)	N	(%)	N	(%)
SEX						
Male	3	(2%)	7	(11%)	14	(6%)
Female	130	(98%)	56	(89%)	241	(94%)
RACE						
White	132	(99%)	63	(100%)		(99%)
Non-White	1	(1%)	0	(0)	3	(1%)
MARITAL STATUS				•		
Married	124	(93%)	57	(90%)	237	(93%)
Single	9	(7%)	6	(10%)	18	(7%)
EDUCATION						
High School	50	(37%)	31	(50%)	81	(32%)
Some College	57	(43%)	20	(31%)	128	(50%)
College Degree +	26	(20%)	12	(19%)	46	(18%)
EMPLOYED*						
Yes	81	(61%)	31	(50%)	97	(38%)
No	52	(39%)	31	(50%)	158	(62%)
RANK OF PARTNER						
Officer	27	(20%)	9	(14%)	46	(18%)
Enlisted	106	(80%)	54	(86%)	209	(82%)
*p<.001						

Table 3

PROVIDING SUPPORT & RECEIVING SUPPORT FROM FAMILY & FRIENDS

	<u>Disaster</u>	Worker SSO	Non-V	Vorker SSO		
			Sioux	Falls SSO		
	N	(%)	<u>N</u>	(%)	<u>N</u>	<u>(%)</u>
Providing Support ^a	110	(83.3%)	26	(42.6%)	67	(63.2%)
Receiving Support from Family ^b	98	(83.1%)	34	(73.9%)	87	(59.6%)
Receiving Support from Friends ^C	86	(77.4%)	25	(59.5%)	68	(48.9%)

 $a_{x}^{2} = 33.37(4), p < .001;$ $b_{x}^{2} = 28.70(4), p < .001;$ $c_{x}^{2} = 23.95(4), p < .001$

Table 4

SUPPORT PROVISION & ACUTE STRESS (IES)

Disaster Worker SSO

Support Provision

	Yes	<u>No</u>
Total IES*	27.0	18.8
Intrusion*	15.7	10.1
Avoidance	11.4	8.7

^{*}p<.05

Table 5

Suggested Mechanisms of Transmission of Posttraumatic Stress in SSOs of Disaster Workers

- 1. Fear and anticipated loss secondary to partner's trauma exposure
- 2. The demands of providing support itself
- 3. Non-reciprocal support
- 4. Recall of ones own past traumatic events
- 5. Limited attention to ones own needs for:
 - a) Social support/social networks
 - b) Health care utilization
- 6. Poor health behaviors
- 7. Identification with partner's distress
- 8. Repressed feelings of dissatisfaction or anger at partner
- 9. Experiencing the distress of others in the community

Chapter 5

An Epidemiological Study of Stress & Health in Enlisted Men & Women

Ann E. Norwood, James Martin, Robert J. Ursano, & Carol S. Fullerton

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INTRODUCTION

There has been a fivefold increase in the number of women serving in the U.S. military since 1973 (Hoiberg & White, 1992). At present women comprise approximately 12% of the US Armed Forces. Yet, relatively little is known about how the health of military women may be affected by the stressors of trauma and war, or by the special demands of serving in a unique military environment during peacetime.

Gender mediates the effects of stress on health in several ways: biological, psychological, and cognitive (e.g., perception, interpretation and attribution). Research on stress and gender indicate that women are more likely than men to be depressed, described phobias and panic attacks (Baum & Grunberg, 1991). Women are more willing to report distress than men although illness and physiologic responses may be parallel to males. It has often been assumed that women experience less stress at work than men although data are scan on this issue. Women are more likely to visit physicians and seek health care so that many of the differences in base rates of illness may be a result of this factor. There is a greater risk for posttraumatic stress in single parents with children and higher rates of somatization among women in general. In addition, women generally report greater social supports than men. Smoking and alcohol use are examples of coping strategies that have traditionally been used more frequently by men. As increasing numbers of women adopt similar maladaptive coping strategies, the effects of stress on health may also change in women.

In studies of military populations, comparison between health care utilization rates of men and women demonstrate the same trend as in the civilian world: women have higher overall rates than men although differences in rates have gradually decreased (Hoiberg). Historically, during the rapid integration of women in the 1970's, women's hospitalization rates for stress-related disorders were significantly higher than men's. As women have become more assimilated, this differential is less prominent (Hoiberg & White, 1992.)

This report examines peacetime stressors, reports of well-being and health care utilization endorsed by men and women junior enlisted soldiers and non-commissioned officers (NCOs.) The study examines the relationship between stressors, psychological well-being and physical health.

METHODOLOGY

The data are from surveys administered to two different divisions. One survey was conducted in late August and early October 1987 of four battalions assigned to a light infantry unit in support functions (Rothberg, Harrison & Fullerton, 1989.) A second survey was conducted of combat service support units assigned to a mechanized infantry division in May 1988 and included six battalions (Rothberg, Harrison & Fullerton, 1989.)

The survey was administered to company or battalion groups. It took respondents approximately 45 minutes to complete the questionnaire. Generally, questions were phrased in a manner which allowed the soldier to select the single most appropriate response from a small number of alternatives. The survey covered a broad array of issues ranging from satisfaction with leadership and the work environment to availability and use of social supports. For the purpose of this study, data analyses focused on comparing the responses of enlisted men and women.

Data originally collected included a total of 2430 respondents. For our analyses, the following groups were deleted; all officers (n=135), those for whom sex was not known (n=63), and those for whom rank was not known (n=09). This resulted in a database containing 2223 junior and senior enlisted personnel from both the light and mechanized infantry support divisions.

Variables examined in this study included those examining stressors, perceptions of stressors, the impact of parenting, and 2 standardized measures, General Well-Being and General Health Questionnaire.

GENERAL WELL-BEING (GWB)

The 18-item version of the General Well-Being (GWB) schedule was used in this study. The GWB is a self-report instrument designed to assess individuals' perception of well-being and distress. An overall total scale score is calculated as well as scores for six subscales which measure health worry, energy level, mood (depressed versus cheerful), emotional-behavioral control, relaxation versus tension/anxiety and perception of life as satisfying/interesting. Questions and response options explore the presence, severity, or frequency of symptoms that are clinically important in assessing a patient's sense of well-being or distress.

THE GENERAL HEALTH QUESTIONNAIRE (GHQ)

The 60-item version of the General Health Questionnaire was used in this study. In the GHQ, respondents are asked to rate themselves on variety of symptoms using a severity scale consisting of 4 responses: "better than usual"; "same as usual"; "worse than usual"; and "much worse than usual". Two scoring methods are commonly used. One is a likert score in which each response is given its own value; the other is a binary scoring method in which "better" and "same" as usual are scored as 0 and "worse" and "much worse" than usual are scored as 1. For both methods a total score is calculated by adding up the responses to the sixty items. In scoring the 60-item GHQ, endorsement of any 12 symptoms from the set of 60 symptoms identifies the respondent as being a probable psychiatric case (Goldberg & Hillier, 1979.) The GHQ has generally been used to detect psychiatric disorders in patients seeking medical care; its use as a screening measure has been reported in numerous populations of medical patients. (Viewig, & Hedlund, 1983).

RESULTS

Data were analyzed comparing all enlisted women against all enlisted men; senior enlisted men against senior enlisted women; and junior enlisted men against junior enlisted women and, on selected items, single versus dual-parenting soldiers. The data will be presented by looking at the enlisted group as a whole and then by examining gender similarities and differences.

TOTAL SAMPLE

Demographics: (see table 1, page 16)

In looking at the sample as a whole, there were 1820 enlisted men and 403 enlisted women. The soldiers' *race* was predominantly Caucasian, with 58.9% describing themselves as white, 27.7% as black, and 13.4% as other racial/ethnic background. The majority of soldiers had a *high school* diploma or less (67.19%) with 28.55% having attended some college and 4.25% having graduated from college. The average age for the total sample was 25.6 years (s.d. 6.06). Over half (52.8%) the sample was *married*. Eight hundred and seventy-one (871) persons reported having *children*, approximately half of parents(55.9%) having 2 or more children. Ninety-four soldiers (n=94) described themselves as *single parents*.

Stressors

In examining the work-related stressors experienced by these soldiers, several relatively objective variables were selected: the number of hours worked on a daily basis, the number of weekends worked per month, how often they arrived home at the anticipated time, whether or not they would prefer a different work schedule, the amount of "down time" spent in the field and in garrison, and whether or not they held a supervisory position.

The vast majority of soldiers reported long **work days**: only 15% (n=329) endorsed working an 8 hour day. Seventy-one percent (71%) (n=1546) reported working an average of 9-12 hours per day and additional 14% (n=312) reported working 13 or more hours daily. Similarly, most soldiers worked at least one **weekend per month**. Less than one-third (30.9%; n=672;) endorsed rarely or never working on the weekend. Half (50%; n=1098) reported working one weekend a month and 19% (n=407) worked 2 or more weekends per month. The majority of soldiers held non-**supervisory positions** (62.8%, n=1360).

The *predictability of work schedules* was examined by asking the soldiers how often they arrived home at the time they had anticipated. Roughly 40% (n=880) endorsed never or seldom reaching home when they expected to. Conversely, 31% (686) reported usually arriving home on time.

Typically, one of the major stressors during peacetime is boredom. Issues of boredom were explored by examining "down time" - time spent not actively engaged in a work pursuit- both in the field and while in garrison. Thirty-five percent (35%) n=738) reported that they experienced virtually no **downtime while serving in the field**. One-fifth (20%, n=429) stated that they spent over half their time in the field waiting for assignments. In garrison, 18%(n=375) reported spending one half or more of their workdays in "downtime", while 40% (n=851) endorsed virtually no downtime.

In addition to soldiers' self-reports about the nature of their workday, their perceptions of the work stress was also explored by asking them whether they would prefer a different work schedule and asking them to assess the amount of work they had, and their personal morale, the morale in their unit.

Soldiers were evenly divided on whether or not they would prefer a different work schedule (n=1101, 50% preferring a change; n=1080, 49.5% preferring their current schedule. In terms of their perception of the amount of work they had, half (50.37%, n=1100) felt that the amount of work was about right, while 31.7% (n=693) felt they had too much work, and the minority (17.9%, n=391) felt they weren't busy enough.

Unit morale was described as very low or low by over half the respondents (54.8%, n=1186), 37% (n=798) assessed unit morale as moderate, and 8.4% (n=28) reported the morale as high or very high. **Personal morale**, on the other hand, was higher with only one quarter (27.4%, n=601) describing their morale as low or very low, 39.7% (n=871) endorsing moderate morale, and almost a third (32.9%, n=722) claiming high or very high personal morale.

Outcome variables

Several variables were chosen as indicators representing psychological and physiological responses to stress: missing work, taking medications for psychological problems, frequency of doctor visits and whether or not the soldier had seen a chaplain or counselor for personal problems since arriving on post..

Eight-nine percent (89%, n=1973) of all soldiers reported that they never or rarely **missed work due to psychological problems**, while 11% (n=235) endorsed missing work for this reason sometimes or more frequently. Similar percentages reported the **use of psychotropic medications** (90%, n=1990 not taking medication for psychological problems; 10% endorsing the use of medications.)

Twelve percent (12%, n=266) of all enlisted soldiers endorsed that they had made frequent visits to a physician within the past year, while 88% (n=1947) reported infrequent or no medical appointments aside from routine physical examinations.

When asked if they had seen a chaplain or counselor for psychological problems since arriving on post, 18% (n=397) indicated they had sought assistance and 82% (n=1801) denied having sought help.

General Health Questionnaire (GHQ)

Mean scores on the GHQ using the likert scoring method were: all enlisted mean = 48.88 (s.d.=26.52), enlisted men mean = 48.08 (s.d.=26.51), and enlisted women mean = 52.38 (s.d.=26.28.) Mean scores on the GHQ scored in the binary fashion were as follows: all enlisted (mean = 9.88, s.d.=12.24), enlisted men (mean = 9.45, s.d.=12.16), and enlisted women (mean = 11.76, s.d.=12.42.)

Using *conventional norms on the GHQ*, 973 men (53% of all men) and 247 women (61% of all women) met caseness criteria using likert scoring. Using the binary scoring method, 888 men (49% of all men) and 250 women (62% of all women) were cases when scored conventionally.

Because our other indicators of impairment were endorsed at a much lower level, customized norms were developed for this population using a cut-off of 2 standard deviations from the group's mean (see pages 60 and 61 for distribution of scores and statistical information.). Using this scoring methodology, 67 men (4% of all men) and 18 women (4% of all women) were cases using likert scoring; 99 men (5% of all men) and 24 women (6% of all women) were outliers using the binary method of scoring the scale.

General Well-Being (GWB

The mean total score for General Well-Being for all soldiers was 63.3 (s.d. = 19.7), for enlisted men (mean = 63.98, s.d. = 19.80), and for enlisted women (mean = 60.05, s.d. = 19.10.) Mean scores and standard deviations for the subscales were as follows:

worry: 9.5 (s.d. = 4.0)energy: 9.8 (s.d. = 4.3)satisfaction: 4.6 (s.d. = 2.3)cheerfulness: 14.8 (s.d. = 5.2)tension: 14.0 (s.d. = 5.7)

emotional control: 10.6 (s.d. = 3.6)

GENDER COMPARISONS

Demographics

The average age of the men was 25.9 years (s.d.=6.30) and, for women, the average age was 24.4 (s.d.=4.69.) Significant gender differences between all men and all women were noted in *education levels*, *race*, *marital status*, and *place of residence*. With the exception of education (for which there was not a statistically significant difference between senior men and senior women), these differences were also observed in comparisons of senior enlisted men with senior enlisted women and with junior enlisted men vs. junior enlisted women. Enlisted women were more likely to be better educated, black, unmarried, and living off-post. (see results tables.) One hundred and eighteen (118) women reported *having children*, 36 of them describing themselves as *single parents*. Seven hundred and fifty (750) men were actively involved in rearing children, 58 of them as single parents.

Stressors (see Table 4 beginning on page 19 for actual chi-square and t-test results)

In comparing all men with all women, there was a statistically significant difference in supervisory responsibilities (with women less likely to be a supervisor) and in the number of weekends worked per month (men more likely to work on weekends); however, this apparent gender difference disappeared when the samples were compared based on seniority. There were no statistically significant differences in comparing all men with all women on arriving home on time, or the amount of down time spent in garrison. Significant differences were seen in number of hours worked daily (women less likely to report working 13 or more hours per day), preferring a different work schedule (women more likely to endorse wanting a different schedule) and downtime in the field (men more likely to report a lot of down time and more women for whom the questions did not apply.) When comparing senior men against senior women and junior men against junior women, however, some of these differences were no longer found. There was not a difference between senior men and senior women in the amount of downtime spent in the field, although this finding held true for junior men compared with junior women. Similarly, hours worked (men more likely to work longer hours), did not differ significantly between senior men and women, but did vary between junior men and women.

There was not a significant difference in male versus female soldiers' perception of the appropriateness of the amount of work they were given. Significant differences were noted in the desire to get out of the Army (more men than women leaning towards staying in or undecided) and in unit and personal morale (women more likely to report poorer morale.) With the exception of wanting to leave the Army (which did not differ significantly between senior men and senior women), these variables continued to be statistically significant in comparing men and women with their senior or junior peers.

Outcome variables

There were no significant differences in caseness on the GHQ, work missed due to psychological problems or the use of medication for psychiatric conditions. Significant differences were seen in health care utilization with women more likely to have endorsed seeing a physician within the past month. There was also a significant difference in self-report on general well-being with men generally reporting a higher sense of well-being than women; much of this difference appears to have been contributed by gender differences between junior enlisted personnel as there was not a significant difference in well-being between senior men and senior women. There were significant gender differences reported on 4 of the 6 GWB subscales: women more likely to be worried, have lower energy, be more anxious and less cheerful. There were no differences in emotionality or satisfaction between all men and all women.

In comparing men and women based on similar rank, some differences were noted. Junior women were more likely to be tense and worried than junior men, but this difference disappeared in comparing senior men and women. Conversely, there were significant differences in cheerfulness reported between senior men and women (men more likely to endorse being cheerful), but this difference did not hold true for junior enlisted men compared with junior enlisted women.

RELATION BETWEEN GHQ AND GWB SCALES

There was a robust negative correlation between caseness on the *GHQ* (using a 2 standard deviation cut-off based on this population's mean scores) and *total score on the General Well-Being* scale. For women the correlation between total well being and the binary scored GHQ was -0.6796 (p=0.0001) and for the likert scored GHQ the correlation was -0.8082 (p=0.001); For men, the correlation was somewhat weaker (binary GHQ R=-0.6196, p=0.0001; likert GHQ R=-0.75441).

IMPACT OF SINGLE PARENTING

In this sample, there were a total of 58 male *single parents* (23 junior enlisted and 35 senior enlisted men) and a total of 688 enlisted men reporting a dual-parent childrearing situation (256 junior enlisted and 432 senior enlisted men). For women, there were 36 *single parents* (21 junior enlisted women and 15 senior enlisted men) and 82 dual-parenting enlisted women (50 junior enlisted women and 32 senior enlisted women.) The analysis focusing on the impact of being a single parents upon men and women enlisted soldiers was somewhat constrained statistically by the low numbers of single parents.

In comparing all single parents against dual-parent couples, there were significant differences for race (single parents more likely to be black x^2 =6.673, p=0.036, df=2, 856), taking psychotropic medications (single parents more likely to be on medication x^2 4.959, p=0.026, df=1,859) and wanting to get out of the Army (single parents reporting higher intent to leave, x^2 =10.521, p=0.033, df=4, 854). There were not statistically differences between dual-parent soldiers and single soldiers in missing work due to psychological problems, missing work due to children's illness, frequent visits to a physician, having talked with a chaplain or counselor, nor in personal and unit morale levels. In focusing on the outcome variables of customized caseness on the GHQ, there were no apparent differences between the groups using either the binary or likert scoring methods. However, there was a statistically significant difference in GWB total score with single parents more likely to report lower well-being (single parents mean =59.1912 sd=21.98) vs. dual-parent soldiers mean =65.43; sd 20.37, t=2.75, t=0.0061).

In comparing male and female single parents, there were no significant differences in race, missing work due to psychological problems, taking medications for psychological problems, seeing a counselor or chaplain since arriving on post, desire to get out of the Army, GWB total scores, or caseness on the GHQ. There were significant differences in single mothers being more likely to have reported seeing a physician within the past year ($x^2 = 8.019$, p = 0.005 df=1,92) and having lower personal morale ($x^2 = 9.984$, p = 0.041, df = 4, 89).

DISCUSSION

This analysis explored some of the stressors hypothesized to affect military men and women as well as how these stressors might relate to job satisfaction, psychological well-being and physical health. The study also demonstrates some of the challenges in studying military populations with norms derived from other populations and in examining gender similarities and differences.

Stressors

In this group of soldiers, both men and women described similar stressors. These soldiers had long duty day and often worked on weekends. For many, the predictability of work was low, 40% endorsing that they rarely or never get home at the time they had anticipated. Boredom did not seem to be a major stressor for most soldiers, at least as reflected in their perception of "down time" (roughly one fifth endorsing virtually no downtime in the field or in garrison.) The soldiers' perceptions of their work situation revealed that they were evenly split on whether or not they'd prefer a different work schedule (50% reporting they wanted to change and 50% wanting to keep it the same.)

Gender Differences

Reasons hypothesized to account for gender differences between men and women's experience of stressors include high distress around work/home conflicts, differences in values, difficulties in integrating into a traditionally male work environment, and a greater willingness to report feelings of being stressed and psychological and physical symptoms (Schlenger and Jordan, 1996).

In this study, the gender differences found in the number of hours worked daily, number of weekends worked, preference for a different work schedule and downtime in the field may be the result of different women holding different occupational specialties than their male counterparts. Our findings replicate that of other studies in finding that women are larger consumers of health care; future studies with larger samples should explore the variables contributing to these differences. Moreover, as the number of fields open to women expand and the percentage of women in the military grow, it may be possible to obtain larger sample sizes allowing for better clarification of factors which may contribute differentially to women's perception and experience of stressors as well

as physical and mental health outcomes. These gender differences also hold implication for prevention and intervention strategies, for example outreach efforts and mobilization of social supports can be most effectively targeted if one understands differences between the issues of a married male soldier with family members and a young female soldiers living in the barracks.

Single vs Dual-parenting Soldiers

This study did not show significant differences in the stressors examined between single-parenting and dual-parenting soldiers. However, it seems probable that there are other stressors or confounding variables which result in the significant finding that single soldiers are more likely to take psychotropic medications and to want to get of out of the Army than are their married compatriots with children. It is interesting to note, also, that there are some differences between male and female single parents, women being more likely to report seeing a physician and having lower morale. Similarly, single parents as a whole reported lower levels of well-being than did dual-parent soldiers. The negative findings in comparing single parent versus dual parent soldiers are also of importance: single parents were no more likely to be cases on the GHQ or to miss work or seek counseling.

Methodological Challenges

There are no other studies which provide GHQ and GWB results (see pages 62 -71) on such a large population in a way which would allow other investigators to establish norms for military populations. Our findings strongly suggest that norms derived from civilian populations cannot be assumed to generalize well to military populations. For example, if standard cut-offs were used for the General Health Questionnaire, 53% of all enlisted men and 62% of all women would have met caseness criteria. Since this sample was chosen from a non-patient population in which all the individuals were at their workplace, it does not seem plausible that all these individuals are distressed to such an extent that they would meet diagnostic criteria for psychiatric disorders. The hypothesis that conventional norms may not be of great assistance is borne out by the fact that these soldiers' psychological states do not appear to affect function to a great degree with only 11% of the sample endorsing that they sometimes or often miss work due to psychological problems and only 10% reporting the use of psychotropic medication. Further studies, then, should continue to examine the question of what norms should be established to assist military leaders and health care practitioners identify soldiers in need of psychiatric assessment.

An important confounding variable that needs to be considered in examining military populations is that junior and senior enlisted personnel may have different stressors and one must be mindful that self (and system) selection takes place for those making it into the senior ranks.

In the examination of gender-related variables in military populations, our findings of significant differences in demographic variables of education level, race, marital status, and place of residence present potential confounding variables which make interpreting and generalizing the data more difficult/limited. Future studies must keep theses important differences in mind when developing sampling strategies and in formulating questions on stressors.

Impairment cuts across a number of work domains: attitudes, morale, wanting to get out of the Army, and self-reports of performance. Further exploration of the similarities and differences between men and women soldiers' perception of stressors, controlling for demographic and occupational differences, would be of enormous assistance in preparing both men and women for the unique stressors of military service. This is especially important since a number of trends (the changing nature of military missions, the increase of single parent and dual-military career families and increasing specialty opportunities for women) make it difficult to generalize from past data. However, more intensive examination of older datasets may lead to the generation of valuable hypotheses for examination in today's military.

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TABLE 1

ISTED WOMEN $(n=403)$ $(n=1,820)$	SR. ENL JR ENL $(n=92)$ $(n=311)$ $(n=695)$ $(n=1,125)$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	hool $n=1485$ (67.2%) $n=42$ (46.2%) $n=196$ (634%) $n=387$ (56.0%) $n=860$ (77.0%) sign $n=631$ (28.6%) $n=104$ (4.25%) $n=8$ (8.8%) $n=9$ (2.9%) $n=43$ (6.2%) $n=34$ (3.0%)	"=1169 (52.8%)	Children $n=871 \ (39.18\%)$ $n=47 \ (51.1\%)$ $n=72 \ (23.2\%)$ $n=469 \ (67.5\%)$ $n=281 \ (15.4\%)$ Single parent $n=94 \ (10.9\%)$ $n=15 \ (31.9\%)$ $n=21 \ (29.6\%)$ $n=35 \ (7.5\%)$ $n=23 \ (8.2\%)$
ALL ENLISTED (n=2,223)		RACE White $n=1,301$ (58.9%) Black $n=611$ (27.7%) Other $n=297$ (13.4%)	EDUCATION = $<$ High school $n=1485$ Some college $n=631$ = $>$ College grad $n=94$	MARITAL STATUS Married $n=1169 (52.8\%)$ Single $n=1043 (47.2\%)$	CHILDREN Children n= Single parent n

TABLE 2

OVERVIEW OF VARIABLES' SIGNIFICANCE - ORD/CARSON

(probability values from chi-square and t-tests; see Table 3 for entire results)

ALL WOMEN 0.001 0.000 0.000 0.000 0.017 0.017 0.031 0.082 0.082 0.082 0.082 0.082 0.0982 0.0982 0.0982 0.0982 0.0982 0.0982 0.0982	OMEN 7	vs JUNIOR WOMEN 0.000 0.002 0.002 0.274 0.008 0.273 0.285 0.290 0.002
ATION ALL WOMEN ATION 0.001 FAL STATUS 0.000 ENCE 0.000 RVISOR 0.000 SWORKED 0.017 SWORKED 0.017 SWORKED 0.017 ERNDS WORKED 0.017 ER DIFFER. SCHEDULE 0.029 VTIME -FIELD 0.029 NTIME -FIELD 0.001 NT OF WORK 0.264 TO GET OUT OF ARMY 0.264 TO GET OUT OF ARMY 0.000 CHAPLAIN/COUNSELOR 0.000 CHAPLAIN/COUNSELOR 0.017 NESS ON GHQ - LIKERT 0.532		0.000 0.000 0.002 0.002 0.002 0.274 0.008 0.273 0.285 0.285 0.290
ATION 0.001 TAL STATUS 0.000 ENCE 0.000 RVISOR 0.000 S. WORKED 0.017 S. WORKED 0.017 S. WORKED 0.017 S. WORKED 0.031 VE HOME ON TIME 0.029 ER DIFFER. SCHEDULE 0.029 N TIME -FIELD 0.001 N TIME -GARRISON 0.982 JNT OF WORK 0.264 TO GET OUT OF ARMY 0.354 MORALE 0.000 CHAPLAIN/COUNSELOR 0.017 NESS ON GHQ - LIKERT 0.532 NESS ON GHQ - LIKERT 0.532		0.000 0.000 0.002 0.074 0.008 0.273 0.285 0.290 0.002
FAL STATUS 0.000 RENCE 0.000 RVISOR 0.000 RVISOR 0.0017 CENDS WORKED 0.017 CENDS WORKED 0.031 VE HOME ON TIME 0.031 VE HOME ON TIME 0.029 RY TIME - FIELD 0.001 NA TIME - GARRISON 0.264 TO GET OUT OF ARMY 0.264 TO GET OUT OF ARMY 0.037 MORALE 0.000 CHAPLAIN/COUNSELOR 0.017 NESS ON GHQ - LIKERT 0.532 NESS ON GHQ - LIKERT 0.532		0.000 0.002 0.002 0.274 0.008 0.273 0.285 0.290 0.002
0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.017 0.017 0.029 0.001 0.001 0.001 0.000 0.00		0.002 0.002 0.274 0.008 0.273 0.285 0.290 0.002
0.000 0.000 0.000 0.000 0.000 0.000 0.031 0.031 0.029 0.029 0.029 0.001 0.082 0.001 0.000 0.00	0.003 0.073 0.598 0.172 0.074 0.009 0.5337	0.002 0.274 0.008 0.273 0.285 0.290 0.002
KED 0.000 WORKED 0.017 WORKED 0.031 IE ON TIME 0.704 FER. SCHEDULE 0.029 FIELD 0.029 GARRISON 0.982 WORK 0.264 TOUT OF ARMY 0.037 IC OUT OF ARMY 0.000 AIN/COUNSELOR 0.000 AIN/COUNSELOR 0.017 N GHQ - LIKERT 0.532	0.073 0.598 0.172 0.074 0.009 0.5337	0.274 0.008 0.273 0.285 0.290 0.002
KED 0.017 N TIME 0.031 SCHEDULE 0.029 LD 0.001 0 RRISON 0.982 RK TRK 0.264 0.037 TY OF ARMY 0.037 0.000 ALE 0.000 0.017 COUNSELOR 0.532 0.532 IQ - LIKERT 0.532 0.532	0.598 0.172 0.074 0.009 0.5337 0.754	0.008 0.273 0.285 0.290 0.002 0.692
0.031 0.704 0.029 0.001 0.982 0.264 0.037 0.000 0.000 0.000 0.000	0.172 0.074 0.009 0.5337 0.754	0.273 0.285 0.290 0.002 0.692
0.704 0.029 0.001 0.982 0.264 0.037 0.000 0.000 0.000	0.074 0.009 0.5337 0.754	0.285 0.290 0.002 0.692
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0.982 0.264 0.037 0.000 0.000 0.017 0.532	0.754	0.692
0.037 0.000 0.000 0.000 0.017	1300	000
0.037 0.000 0.000 0.017 0.532	0.001	0.538
0.000 0.000 0.017 0.532	0.070	0.005
0.000 0.017 0.532	0000	0.004
0.017	0.000	0.151
0.532	0.041	0.615
1010	0.071	699.0
CASENESS ON GHQ - BINARY 0.78/ 0.359	0.359	0.622
MISSED WORK DUE TO PSYCH 0.510 0.818	0.818	0.172
MISSED WORK LOTS DUE TO P 0.071 0.408	0.408	0.053
TAKE MEDS FOR PSY COND 0.396 0.420	0.420	0.136
TAKE LOTS MEDS FOR PSY 0.243 0.861	0.861	0.197
SEEN M.D. IN PAST MONTH 0.000 0.006	900.0	0.000

TABLE 2 (cont.)

OVERVIEW OF VARIABLES' SIGNIFICANCE - ORD/CARSON

(probability values from chi-square and t-tests; see Table 3 for entire results)

VARIABLE	ALL MEN	SENIOR MEN	JUNIOR MEN
	vs Ali Women	vs SENIOD WOMEN	VS II MIOD WOMEN
	ALL WOMEN	SEIVION WOMEN	JOINIOR WOINIEIN
GHQ LIKERT 1S.D.	0.0039	0.0687	0.1371
GHQ BINARY 1SD	0.0008	0.0310	0.0775
GWB - 2 MISSING ALLOWED	0.0003	0.0529	0.0264
GWB - 0 MISSING ALLOWED	0.0012	0.1512	0.0332
GWB - WORRY SUBSCALE	0.0260	0.8340	0.0125
GWB - ENERGY SUBSCALE	1000'0	0.0018	0.0343
GWB - SATISFACTION SUB	6806'0	0.1468	0.0821
GWB - CHEERFULNESS SUB	0.0039	0.0129	0.2624
GWB - TENSION SUBSCALE	00000	0.1607	0.0004
GWB - EMOTIONALITY SUB	0.2091	0.9141	0.5495

TABLE 3 - RESULTS OF BIVARIATE ANALYSIS

ALL ENLISTED WOMEN VS MEN

EDUCATION (using row %)

N Tot=2210	N	1=all men	2=all women	DF	Chi-Square	P-value
OCEDUC				2,2208	14.440	0.001
1	1485	1247 (83.97%)	238 (16.03%)			
2	631	486 (77.02%)	145 (22.98%)			
3	94	77 (81.91%)	17 (18.09%)			
	2210	1810				

OCEDUC: 1=hs or less, 2=some college, 3=college/college +

1=men 2=women

RACE (using row %)

N Tot=2208	N	1=all men	2=all women	DF	Chi-Square	P-value
OCRACE				2,2206	24.859	0.000
1	1301	1097 (84.32%)	204 (15.68%)			
2	611	459 (75112%)	152 (24.88%)			
3	296	249(84.12%)	47 (15.88%)			
	2208	1805	403			

OCRACE: 1=white, 2=black, 3=other

1=men 2=women

MARITAL STATUS (using row %)

N Tot=2212	N	l=all men	2=all women	DF	Chi-	P-value
					Square	
MARSTAT				5,2207	35.652	0.000
1	7990	630 (79.75%)	160 (20.25%)			
2	123	97 (78.86%)	26 (21.14%)			
3	127	90 (70.87%)	37 (29.13%)			
4	3	0 (0%)	3 (100.00%)			
5	199	167 (83.92%)	32 (16.08%)			
6	970	828 (85.36%)	142 (14.64%)			
	2212	18112	400			
3 4 5	127 3 199 970	90 (70.87%) 0 (0%) 167 (83.92%) 828 (85.36%)	37 (29.13%) 3 (100.00%) 32 (16.08%) 142 (14.64%)			

MARSTAT: 1=nvr mar, 2=div, 3=sep, 4=wid, 5=remarried, 6=1st marriage

1=men 2=women

CONDENSED MARITAL STATUS (using row %)

N Tot=2212	N	1=all men	2=all women	DF	Chi-Square	P-value
OCMARRIG				2,2210	21.527	0.000
0	790	630 (79.75%)	160 (20.25%)			
1	253	187)73.91%)	66 (26.09%)			
2	1169	995 (85.12%)	174 (14.88%)			
	2212	1812				

OCMARRIG: 0=nvr marr 1=if loss, 2=if married

LOCATION (using row %)

N Tot=2223	N	1=all men	2=all women	DF	Chi-Square	P-value
OCLOCAT				1,2222	1.665	0.197
.0	666	556 (83.48%)	110 (16.52%)			
1	1557	1264 (81.18%)	293 (18.82%)			
	2223	1820	403			

OCLOCAT: 0=Ft. Ord 1=Ft. Carson

1=men 2=women

RESIDENCE (using row %)

N Tot=2181	N	1=all men	2=all women	DF	Chi-Square	P-value
RESIDE				2,2179	26.077	0.000
1	811	655 (80.76%)	156 (19.24%)			
2	305	281 (92.13%)	24 (7.87%)			
3	1065	847 (79.53%)	218 (20.47%)			
	2181	1783	398			

RESIDE: 1=barracks, 2=on-post, 3=off-post

1=men 2=women

SUPERVISORY STATUS (using row %)

N Tot=2164	N	l=all men	2=all women	DF	Chi-Square	P-value
SUPRVISR				1,2163	14.498	0.000
1	1360	1082 (79.56%)	278 (20.44%)			
. 2	804	692 (86.07%)	112 (13.93%)			
	2164	1774	390			

SUPRVISR: 0=non-supervisor, 1=supervisor

1=men 2=women

OF HOURS WORKED/DAY (using row %)

N Tot=2187	N	l=all men	2=all women	DF	Chi-Square	P-value
OCWKHRS				3,2184	10.143	0.017
1	329	276 (83.89%)	53 (16.11%)			
2	1546	1238 (80.08%)	308(19.92%)			
3	242	210 (86.78%)	32 (13.22%)			
4	70	62 (88.57%)	8 (11.43%)			
	2187	1786	401			

OCWKHRS: 1=1-8 hours/day, 2=9-12 hours/day, 3=13-15 hours/day, 4=16+hours/day

1=men 2=women

OF WEEKENDS WORKED/MONTH (using row %)

N Tot=2177	N	1=all men	2=all women	DF	Chi-Square	P-value
OCWKENDS				3,2174	8.863	0.031
1	672	533 (79.32%)	139 (20.68%)			
2	1098	926 (84.34%)	172 (15.66%)			
3	299	237 (79.26%)	62 (20.74%)			
4	108	89 (82.41%)	19 (17.59%)			
	2177	1785	392			

OCWKENDS: 1=1-8, 2=9-12, 3=13-15, 4=16+

SEX: 1=JR ENL 2=SR ENL

HOME ON TIME (using row %)

N Tot=2217	N	1=all men	2=all women	DF	Chi-Square	P-value
HOMEOT				3,2214	1.406	0.704
· 1	303	241 (79.54%)	62 (20.46%)			
2	577	471 (81.63%)	106 (28.37%)			
3	651	537 (82.49%)	114 (17.51%)			
4	686	565 (82.36%)	121 (17.64%)			
	2217	1814	403			

1=never, 2=seldom, 3=sometimes, 4=most of the time

1=men 2=women

WOULD PREFER DIFFERENT SCHEDULE (using row %)

N Tot=2181	N	1=all men	2=all women	DF	Chi-Square	P-value
DIFSCHED				1,2180	4.798	0.029
1	1101	884 (80.29%)	217 (19.71%)			
2 ·	1080	906 (83.89%)	174 (16.11%)			
	2181	1790	391			

DIFSCHED: 1= would prefer diff sched 2=current sched okay

1=men 2=women

DOWN TIME IN THE FIELD (using row %)

N Tot=2134	N	1=all men	2=all women	DF	Chi-Square	P-value
DTFLD				5,2129	20.949	0.001
1	186	151 (81.18%)	35 (18.82%)			
2	243	208 (85.60%)	35 (14.40%)			
3	290	244 (84.14%)	46 (15.86%)			
4	414	359 (86.71%)	55 (13.29%)			
5	738	598 (81.03%)	140 (18.97%)			
6	263	195 (74.14%)	68 (25.86%)			
	2134	1755	379			

DTFLD: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

1=men 2=women

DOWN TIME IN GARRISON (using row %)

N Tot=2108	N	1=all men	2=all women	DF	Chi-Square	P-value
DTGAR				4,2104	0.407	0.982
1	163	134 (82.21%)	29 (17.79%)			
2	212	172 (81.13%)	40 (18.87%)			
3	397	330 (83.12%)	67 (16.88%)			
4	485	401 (82.68%)	84 (17.32%)			
5	851	703 (82.61%)	148 (17.39%)			
	2108	1740				

DTGAR: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

AMOUNT OF WORK (using row %)

N Tot=2184	N	1=all men	2=all women	DF	Chi-Square	P-value
AMTWRK				2,2182	2.661	0.264
· 1	693	578 (83.41%)	115 (16.59%)			•
2	1100	886 (80.55%)	214 (19.45%)			
3	391	324 (82.86%)	67 (17.14%)			
	2184	1788	396			

AMTWRK: 1=too much, 2=about right, 3=not enough work

1=men 2=women

WOULD LIKE TO GET OUT OF THE ARMY(using row %)

N Tot=2207	N	1=all men	2=all women	DF	Chi-Square	P-value
GETOUT				4, 2203	10.187	0.037
1	407	340 (83.54%)	67 (16.46%)			
2	396	3320 (80.81%)	76(19.19%)			
3	433	365 (84.30%)	68 (15.70%)			
4	332	253 (76.20%)	79 (23.80%)			
5	639	528 (82.63%)	111			
			(17.37%)			
	2207	1806	401			

GETOUT: 1=definitely not, 2=probably not, 3=not sure, 4=probably get out, 5=definitely get out

SEX: 1=JR ENL 2=SR ENL

PERSONAL MORALE (using row %)

				``		
N Tot=2194	N	l=all men	2=all women	DF	Chi-Square	P-value
PERMOR				4,2190	24.983	0.000
1	234	171 (73.08%)	63 (26.92%)			
2	367	283 (77.11%)	84 (22.89%)			
3	871	730 (83.81%)	141 (16.19%)			
4	545	464 (85.14%)	81 (14.86%)			
5	177	150 (84.75%)	27 (15.25%)			
	2194	1798	396			

PERMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high

1=men 2=women

UNIT MORALE (using row %)

N Tot=2166	N	1=all men	2=all women	DF	Chi-Square	P-value
UNITMOR				4,2162	36.086	0.000
1	624	463 (74.20%)	161 (25.80%)			
2	562	468 (83.27%)	94 (16.73%)			
3	798	686 (85.96%)	112 (14.04%)			
4	154	131 (85.06%)	23 (14.94%)			
5	28	21 (75.00%)	7 (25.00%)			
	2166	1769	397			

UNITMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (personal morale)

HAVE SEEN CHAPLAIN/COUNSELOR (using row %)

N Tot=2198	N	1=all men	2=all women	DF	Chi-Square	P-value
W15A				1,2197	5.660	0.017
1 (yes)	397	308 (77.58%)	89 (22.42%)			
2(no)	1801	1489 (82.68%)	312 (17.32%)			
	2198	1797	401			

W15A: 1=yes 2=no Saw a chaplain or counselor since arriving on post

1=men 2=women

CASENESS ON CUSTOMIZED GHQ [LIKERT] (using row %)

N Tot=2092	N	1=all men	2=all women	DF	Chi-Square	P-value
SLCASALL				1,2091	0.390	0.532
0 (non-case)	2007	1636 (81.51%)	371 (18.49%)			
1 (case)	85	67 (78.82%)	18 (21.21%)	1		
	2092	1703	389			

SLCASALL 1=caseness on customized 2 sd likert 0=non-case

1=men 2=women

CASENESS ON CUSTOMIZED GHQ [BINARY] (using row %)

N Tot=2092	N	1=all men	2=all women	DF	Chi-Square	P-value
BMCASALL				1,2091	0.073	0.787
0 (non-case)	1969	1604 (81.46%)	365 (18.54%)			
l (case)	123	99 (80.49%)	24 (19.51%)			
	2092	1703	389			

BMCASALL 1=caseness on customized 1 sd binary 0=non-case

1=men 2=women

MISS WORK DUE TO PSYCHOLOGICAL PROBLEMS

(using row %)

			<u> </u>			
N Tot=2208	N	1=all men	2=all women	DF	Chi-Square	P-value
MISSWORK				1,2207	.434	0.510
0 (non-case)	1973	1611 (81.65%)	362 (18.35%)			
1 (case)	235	196 (83.40%)	39 (16.60%)			
	2208	1807	401			

MISSWORK 1=miss work sometimes-always due to psych prob 0=never/rarely

1=men 2=women

TAKE MEDS FOR PSYCHOLOGIC PROBLEMS

(using row %)

N Tot=2208	N	1=all men	2=all women	DF	Chi-Square	P-value
TAKEMEDS				1,2207	0.722	0.396
0 (no meds)	1990	1624 (82.61%)	366 (18.39%)			
l (meds)	218	183 (83.94%)	35 (16.06%)			
	2208	1807	401			

TAKEMEDS 1=takes meds for psych prob 0=does not take meds for psych prob

OF VISITS TO PHYSICIAN IN PAST YEAR (using row %)

N Tot=2208	N	1=all men	2= female	DF	Chi-Square	P-value
MDFREQNT				1,2207	25.867	0.000
0 (infreq) 1 (freq)	1947 261	1624 (83.41%) 184 (70.50%)	323 (16.59%) 77 (29.50%)			
	2208	1808	400			

MDFREQNT 1=frequent visits to doctors during past year 2=infreq or no MD visits 1=men 2=women

HOW OFTEN DISCUSSES PERSONAL PROBLEMS WITH FAMILY MEMBERS (using row %)

N Tot=2204	N	l=all men	2=female	DF	Chi-Square	P-value
W22	 			4, 2198	5.263	0.261
1	307	253 (82.41%)	54 (17.59%)			
2	404	341 (84.41%)	63 (15.59%)			
3	505	416 (82.38%)	89 (17.62%)			
4	536	438 (81.72%)	98 (18.28%)			
5	452	355 (78.54%)	97 (21.46%)			
-	2204	1803	401			

W22: 1=nvr, 2=rarely, 3=sometimes, 4=often, 5=always talk with friends about problems
1=men 2=women

HOW OFTEN DISCUSSES PERSONAL PROBLEMS WITH FRIENDS (using row %)

N Tot=2197	N	1=all men	2=female	DF	Chi-Square	P-value
W27				5,2192	48.713	0.000
1	325	288 (88.62%)	37 (11.38%)			
2	641	539 (84.09%)	102 (15.91%)			
3	742	603 (81.27%)	139 (18.73%)			
4	274	207 (75.55%)	67 (24.45%)			
5	107	68 (63.55%)	39 (36.45%)			
6	108	97 (89.81%)	11 (10.19*%)			
	2197	1802	395			

W27: 1=nvr, 2=rarely, 3=sometimes, 4=often, 5=always, 6=N/A talk with family about problems
1=men 2=women

UNIT MORALE (using row %)

				`		
N Tot=2166	N	1=all men	2=female	DF	Chi-Square	P-value
UNITMOR	<u> </u>			4,2162	36.086	0.000
1	624	463 (74.20%)	161 (25.80%)			
2	562	468 (83.27%)	94 (16.73%)			
3	798	686 (85.96%)	112 (14.04%)			
4	154	131 (85.06%)	23 (14.94%)	i		
5	28	21 (75.00%)	7 (25.00%)			
	2166	1769	397			<u> </u>

UNITMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high

COLUMN%

EDUCATION (using column %)

N Tot=2210	N	1=all men	2=all women	DF	Chi-Square	P-value
OCEDUC				2,2208	14.440	0.001
1	1485	1247 (68.90%)	238 (59.50%)			
2	631	486 (26.85%)	145 (36.25%)			
3	94	77 (4.25%)	17 (4.25%)			
	2210	1810		1		

OCEDUC: 1=hs or less, 2=some college, 3=college/college +

1=men 2=women

RACE (using column %)

N Tot=2208	N	l=all men	2=all women	DF	Chi-Square	P-value
OCRACE				2,2206	24.859	0.000
1	1301	1097 (60.78%)	204 (50.62%)			•
2	611	459 (25.43%)	152 (37.72%)			
3	296	249(13.80%)	47 (11.66%)	•		
	2208	1805	403			

OCRACE: 1=white, 2=black, 3=other

1=men 2=women

MARITAL STATUS (using column %)

N Tot=2212	N	1=all men	2=all women	DF	Chi-Square	P-value
MARSTAT				5,2207	35.652	0.000
1	7990	630 (34.77%)	160 (40.00%)			
2	123	97 (5.35%)	26 (6.50%)			
3	127	90 (4.87%)	37 (9.25%)	-		
4	3	0 (0%)	3 (0.75%)			
5	199	167 (9.22%)	32 (8.00%)			
6	970	828 (45.70%)	142 (35.50%)			
	2212	1812	400			

MARSTAT: 1=nvr mar, 2=div, 3=sep, 4=wid, 5=remarried, 6=1st marriage

1=men 2=women

MARITAL STATUS CONDENSED (using column %)

N Tot=2212	N	1=all men	2=all women	DF	Chi-Square	P-value
OCMARRIG				2,2210	21.527	0.000
0	790	630 (34.77)	160 (40.00%)			
1	253	187 (10.32%)	66 (16.50%)			
2	1169	995 (54.91%)	174 (43.50%)			
	2212	1812			L	

OCMARRIG: 0=nvr marr 1=if loss, 2=if married

LOCATION (using column %)

N Tot=2223	N	1=all men	2=all women	DF	Chi-Square	P-value
OCLOCAT 0 1	666 1557 2223	556 (30.55%) 1264 (69.45%%) 1820	110 (27.30%) 293 (72.70%) 403	1,2222	1.665	0.197

OCLOCAT: 0=Ft. Ord 1=Ft. Carson

1=men 2=women

RESIDENCE (using column %)

N Tot=2181	N	1=all men	2=all women	DF	Chi-Square	P-value_
RESIDE	<u> </u>			2,2179	26.077	0.000
1	811	655 (36.74%)	156 (39.20%)			
2	305	281 (15.75%)	24 (6.03%)			
3	1065	847 (47.50%)	218 (54.77%)			
	2181	1783	398			

RESIDE: 1=barracks, 2=on-post, 3=off-post

1=men 2=women

SUPERVISOR (using column %)

N Tot=2164	N	1=all men	2=all women	DF	Chi-Square	P-value
SUPRVISR	 			1,2163	14.498	0.000
1	1360	1082 (60.99%)	278 (71.28%)			
2	804	692 (39.01%)	112 (28.72%)		1	
	2164	1774	390			

SUPRVISR: 0=non-supervisor, 1=supervisor

1=men 2=women

HOURS WORKED/DAY (using column %)

N Tot=2187	N	1=all men	2=all women	DF	Chi-Square	P-value
OCWKHRS				3,2184	10.143	0.017
1	329	276 (15.45%)	53 (13.22%)			
2	1546	1238 (69.32%)	308(76.81%)			
3	242	210 (11.76%)	32 (7.98%)			
4	70	62 (3.47%)	8 (2.00%)			
	2187	ì786	401			

OCWKHRS: 1=1-8, 2=9-12, 3=13-15, 4=16+

1=men 2=women

WEEKENDS WORKED/MONTH (using column %)

N Tot=2177	N	1=all men	2=all women	DF	Chi-Square	P-value
OCWKENDS				3,2174	8.863	0.031
1	672	533 (29.86%)	139 (35.46%)		ļ	
2	1098	926 (51.88%)	172 (43.88%)			
3	299	237 (13.28%)	62 (15.82%)			
4	108	89 (4.99%)	19 (4.85%)			İ
·	2177	1785	392			

OCWKENDS: 1=1-8, 2=9-12, 3=13-15, 4=16+

HOME ON TIME (using column %)

N Tot=2217	N	1=all men	2=all women	DF	Chi-Square	P-value
HOMEOT				3,2214	1.406	0.704
· 1	303	241 (13.29%)	62 (15.38%)			
2	577	471 (25.96%)	106 (26.30%)			
3	651	537 (29.60%)	114 (28.29%)	•		
4	686	565 (31.15%)	121 (30.02%)			
	2217	1814	403			

1=never, 2=seldom, 3=sometimes, 4=most of the time

1=men 2=women

WOULD PREFER DIFFERENT SCHEDULE (using column %)

N Tot=2181	N	1=all men	2=all women	DF	Chi-Square	P-value
DIFSCHED				1,2180	4.798	0.029
1	1101	884 (49.39%)	217 (55.50%)			
2	1080	906 (50.61%)	174 (44.50%)			
	2181	1790	391			

DIFSCHED: 1= would prefer diff sched 2=current sched okay

1=men 2=women

DOWN TIME IN THE FIELD (using column %)

N Tot=2134	N	1=all men	2=all women	DF	Chi-Square	P-value
DTFLD				5,2129	20.949	0.001
1	186	151 (8.60%)	35 (9.23%)			
2	243	208 (11.85%)	35 (9.23%)			
3	290	244 (13.90%)	46 (12.14%)		:	
4	414	359 (20.46%)	55 (14.51%)			
5	738	598 (34.07%)	140 (36.94%)			
6	263	195 (11.11%)	68 (17.94%)			
	2134	1755	379			

DTFLD: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

1=men 2=women

DOWN TIME IN GARRISON (using column %)

N Tot=2108	N	l=all men	2=all women	DF	Chi-Square	P-value
DTGAR				4,2104	0.407	0.982
1	163	134 (7.70%)	29 (7.88%)			
2	212	172 (9.89%)	40 (10.87%)			
3	397	330 (18.97%)	67 (18.21%)			
4	485	401 (23.05%)	84 (22.83%)	j		
5	851	703 (40.40%)	148 (40.22%)			
	2108	1740	368			

DTGAR: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

AMOUNT OF WORK (using column %)

N Tot=2184	N	1=all men	2=all women	DF	Chi-Square	P-value
AMTWRK				2,2182	2.661	0.264
-1	693	578 (32.33%)	115 (29.04%)			
2	1100	886 (49.55%)	214 (54.04%)			
3	391	324 (18.12%)	67 (16.92%)			
	2184	1788	396			

AMTWRK: 1=too much, 2=about right, 3=not enough work

1=men 2=women

WANT TO GET OUT OF THE ARMY (using column %)

	N	1=male	2=female	DF	Chi-	P-value
N Tot=2207					Square	
GETOUT				4, 2203	10.187	0.037
1	407	340 (18.83%)	67 (16.71%)			
2	396	320 (17.72%)	7618.95%)			
3	433	365 (20.21%)	68 (16.96%)			
4	332	253 (14.01%)	79 (19.70%)			
5	639	528 (29.24%)	111 (27.68%)			
	2207	1806	401			~

GETOUT: 1=definitely not, 2=probably not, 3=not sure, 4=probably get out, 5=definitely get out

1=men 2=women

PERSONAL MORALE (using column %)

N Tot=2194	N	1=male	2=female	DF	Chi-Square	P-value
PERMOR				4,2190	24.983	0.000
1	234	171 (9.51%)	63 (15.91%)			
2	367	283 (15.74%)	84 (21.21%)	ł		
3	871	730 (40.60%)	141 (35.61%)			
4	545	464 (25.81%)	81 (20.45%)			
5	177	150 (8.34%)	27 (15.25%)			
	2194	1798	396			L

PERMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high

1=men 2=women

UNIT MORALE (using column %)

N Tot=2166	N	1=male	2=female	DF	Chi-Square	P-value
UNITMOR				4,2162	36.086	0.000
1	624	463 (26.17%)	161 (40.55%)			
2	562	468 (2646%)	94 (23.68%)			
3	798	686 (38.78%)	112 (28.21%)			
4	154	131 (7.41%)	23 (5.79%)			
5	28	21 (1.19%)	7 (1.76%)			
	2166	1769	397			

UNITMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high

HAVE SEEN CHAPLAIN/COUNSELOR (using column %)

N Tot=2198	N	1=male	2=female	DF	Chi-Square	P-value
W15A				1,2197	5.660	0.017
1 (yes)	397	308 (17.14%)	89 (22.19%)		•	
2(no)	1801	1489 (82.89%)	312 (77.81%)			
	2198	1797	401			

W15A: 1=yes 2=no 1=men 2=women

CASENESS ON CUSTOMIZED GHQ [LIKERT] (using column %)

2092	N	1=male	2=female	DF	Chi-Square	P-value
SLCASALL				1,2091	0.390	0.532
0 (non-case)	2007	1636 (96.07%)	371 (95.37%)			
l (case)	85	67 (3.93%)	18 (4.63%)			
	2092	1703	389			

SLCASALL 1=caseness on customized 2 sd likert 0=non-case 1=men 2=women

CASENESS ON CUSTOMIZED GHQ [BINARY] (using column %)

N Tot=2092	N	1= male	2= female	DF	Chi-Square	P-value
BMCASALL				1,2091	0.073	0.787
0 (non-case)	1969	1604 (94.19 %)	365 (93.83%)			
1 (case)	123	99 (5.81%)	24 (6.17%)			
	2092	1703	389			

BMCASALL 1=caseness on customized 1 sd binary 0=non-case 1=men 2=women

MISS WORK DUE TO PSYCHOLOGICAL PROBLEMS (using column %)

			`			
N Tot=2208	t=2208 N 1= male		2= female	DF	Chi-Square	P-value
MISSWORK				1,2207	.434	0.510
0 (non-case)	1973	1611 (89.15%)	362 (90.27%)			
1 (case)	235	196 (10.85%)	39 (9.73%)			
	2208	1807	401			

MISSWORK 1=miss work sometimes-always due to psych prob 0=never/rarely

TAKE MEDICATIONS FOR PSYCHOLOGICAL PROBLEMS (using column %)

N Tot=2208	N	1= male	2= female	DF	Chi-Square	P-value
TAKEMEDS				1,2207	0.722	0.396
0 (no meds) 1 (meds)	1990 218	1624 (89.87%) 183 (10.13%)	366 (91.27%) 35 (8.73%)			
- ()	2208	1807	401			

TAKEMEDS 1=takes meds for psych prob 0=does not take meds for psych prob 1=men 2=women

OF VISITS TO PHYSICIAN IN PAST YEAR

(using column %)

N Tot=2208	N	1= male	2= female	DF	Chi-Square	P-value
MDFREQNT 0 (infreq) 1 (freq)	1947 261	1624 (89.82%) 184 (10.18%)	323 (80.75%) 77 (19.25%)	1,2207	25.867	0.000
	2208	1808	400		<u> </u>	

MDFREQNT 1=frequent visits to doctors during past month 2=infreq or no MD visits 1=men 2=women

HOW OFTEN DISCUSS PERSONAL PROBLEMS WITH FAMILY MEMBERS (using column %)

N Tot=2204	N	1=male	2=female	DF	Chi-Square	P-value
w22				4, 2198	5.263	0.261
1	307	253 (14.03%)	54 (13.47%)			
2	404	341 (18.91%)	63 (15.71%)			
3	505	416 (23.07%)	89 (22.19%)			
4	536	438 (24.29%)	98 (24.44%)			
5	452	355 (19.69%)	97 (24.19%)	1.		
-	2204	1803	401			

W22: 1=nvr, 2=rarely, 3=sometimes, 4=often, 5=always talk with friends about problems 1=men 2=women

HOW OFTEN DISCUSS PERSONAL PROB WITH FRIENDS (using column %)

N Tot=2197	N Tot=2197 N		2=female	DF	Chi-Square	P-value
W27	<u> </u>			5,2192	48.713	0.000
1	325	288 (15.98%)	37 (9.37%)			
2	641	539 (29.91%)	102 (25.82%)		1	
3	742	603 (33.46%)	139 (35.19%)	2		
4	274	207 (11.49%)	67 (16.96%)			
5	107	68 (3.77%)	39 (9.87%)			
6	108	97 (5.38%)	11 (2.78%)			
	2197	1802	395			

W27: 1=nvr, 2=rarely, 3=sometimes, 4=often, 5=always, 6=N/A talk with family about problems

SEX: 1=male 2=female

UNIT MORALE (using column %)

N Tot=2166	N	1=male	2=female	DF	Chi-Square	P-value
UNITMOR				4,2162	36.086	0.000
-1	624	463 %)	161 (%)			
2	562	468 (%)	94 (%)			
3	798	686 (%)	112 (%)	ļ		
4	154	131 (%)	23 (%)			
5	28	21 (%)	7 (%)			
	2166	1769	397			

UNIMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high

SEX: 1=male 2=female

SLGHQ

(total score on likert scored GHQ)

(1=men 2=women)

SLGHQ	N	Mean	S.D.	Variance	Т	DF	P-value
1	1703	48.0847	26.5123	Unequal	-2.9022	582.2	0.0038
2	389	52.3773	26.2769	Equal	-2.8859	2090.2	0.0039

F(1702,388) = 1.02, p = .8360

BMGHQ

(total score on binary scored GHQ)

(1=men 2=women)

BMGHQ	N	Mean	S.D.	Variance	T	DF	P-value
1	1703	9.4503	12.1613	Unequal`	-3.3286	570.5	0.0009
2	389	11.7639	12.4152	Equal	-3.3721	2090.5	0.0008

F(1050,304) = 1.07, p = .5057

V8

(total GWB score - 2 missing allowed)

(1=men 2=women)

V8	N	Mean	S.D.	Variance	Т	DF	P-value
1	1765	63.9828	19.7978	Unequal	3.6732	596.5	0.0003
2	394	60.0472	19.0994	Equal	3.5904	2157.0	0.0003

F(1764,393) = 1.07, p = .3753

 $V9 \\ \text{(total GWB score - no missing allowed)}$

(1=men 2=women)

V9	l N	Mean	S.D.	Variance	T	DF	P-value
1	1616	64.1572	19.6227	Unequal	3.2898	542.8	0.0011
2	361	60.4792	19.1099	Equal	3.2350	1975.0	0.0012

F(277,82) = 1.01, p = .9735

GWBWOR

(GWB subscale score for health worry; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBWOR	N	Mean	S.D.	Variance	Т	DF	P-value
1	1701	3.5973	3.9471	Unequal	2.1977	555.1	0.0284
2	381	9.0971	4.0306	Equal	2.2271	2080.0	0.0260

F(380,1700) = 1.05, p = .5885

GWBENE

(GWB subscale score for energy; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBENE	N	Mean	S.D.	Variance	Т	DF	P-value
1	1764	10.0062	4.3138	Unequal	4.0107	570.4	0.0001
2	391	9.028	4.3738	Equal	4.0462	2153.0	0.0001

F(390,1763) = 1.03, p = .7137

GWBSAT

(GWB subscale score for satisfying/interesting life; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBSAT	l N	Mean	S.D.	Variance	T	DF	P-value
1	1783	4.6315	2.3163	Unequal	0.1143	5578.8	0.9090
2	394	4.6168	2.3210	Equal	0.1145	2175.0	0.9089

F(393,1782) = 1.00, p = .9455

GWBCHR

(GWB subscale score for cheerful mood; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBCHR	N	Mean	S.D.	Variance	Т	DF	P-value
l	1745	14.9135	5.2480	Unequal	2.9628	591.7	0.0032
2	390	14.0692	5.0507	Equal	2.8916	2133.0	0.0039

F(1744,389) = 1.08, p = .3464

GWBTEN

(GWB subscale score for relaxed vs. tense; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBTEN	N	Mean	S.D.	Variance	T	DF	P-value
1	1754	14.2406	5.6934	Unequal	4.2641	593.3	0.0001
2	393	12.9186	5.5239	Equal	4.1831	2145.0	0.0000

F(1753,392) = 1.06, p = .4575

GWBEMO

(GWB subscale score for emotional/behavioral control; high score reflects self-representation of well-being)

(1=men 2=women)

GWBEMO	N	Mean	S.D.	Variance	Т	DF	P-value
1	1774	10.6685	3.6268	Unequal	1.3065	608.9	0.1919
2	395	10.4177	3.4102	Equal	1.2564	2167.0	0.2091

F(1773,394) = 1.13, p = .1271

SENIOR ENLISTED MEN vs. SENIOR ENLISTED WOMEN

OCEDUC (using row %)

N Tot=782	N	1=all men	2=all women	DF	Chi-Square	P-value
OCEDUC				2,780	3.341	0.188
1	429	387 (90.21%)	42 (9.79%)			
2	302	261 (86.42%)	41 (13.58%)			
3	51	43 (84.31%)	8 (15.69%)			
	782	691	91			

OCEDUC: 1=hs or less, 2=some college, 3=college/college +

1=men 2=women

OCRACE (using row %)

N Tot=778	N	l=all men	2=all women	DF	Chi-Square	P-value
OCRACE				2,776	10.867	0.004
1	417	380 (91.13%)	37 (8.87%)			
2	220	181 (82.27%)	39 (17.73%)			
3	141	125 (88.65%)	16 (11.35%)			
	778	686	92			

OCRACE: 1=white, 2=black, 3=other

1=men 2=women

MARSTAT (using row %)

N Tot=781	N	1=all men	2=all women	DF	Chi-Square	P-value
MARSTAT				5,776	29.300	0.000
1	69	52 (75.36%)	17 (24.64%)	}		
2	69	57 (82.61%)	12 (17.39%)		;	
3	63	51 (82.61%)	12 (29.05%)			
4	1	0 (0.00%)	1 (100.00%)			
5	146	134 (91.78%)	12 (8.22%)			
6	433	395 (91.22%)	38 (8.78%)			
	781	689	92			

MARSTAT: 1=nvr mar, 2=div, 3=sep, 4=wid, 5=remarried, 6=1st marriage 1=men 2=women

OCMARRIG (using row %)

N Tot=781	N	1=all men	2=all women	DF	Chi-Square	P-value
OCMARRIG				2,779	22.787	0.000
0	69	52 (75.36%)	17 (24.64%)			
1	133	108 (81.20%)	25 (18.80%)			
2	579	529 (91.36%)	50 (8.64%)			
	781	689	92			

OCMARRIG: 0=nvr marr 1=if loss, 2=if married

OCLOCAT (using row %)

N Tot=785	N	1=all men	2=all women	DF	Chi-Square	P-value
OCLOCAT				1,784	0.130	0.719
. 0	260	228 (87.69%)	32 (12.31%)			
1	525	465 (88.57%)	60 (11.43%)			
	785	693	92			

OCLOCAT: 0=Ft. Ord 1=Ft. Carson

1=men 2=women

RESIDE (using row %)

N Tot=782	N	1=all men	2=all women	DF	Chi-Square	P-value
RESIDE				2,780	11.948	0.003
1	93	77 (82.80%)	16 (17.20%)			
2	215	203 (94.42%)	12 (5.58%)			
3	474	410 (86.50%)	64 (13.50%)			
	782	690	92			

RESIDE: 1=barracks, 2=on-post, 3=off-post

1=men 2=women

SUPRVISR (using row %)

N Tot=758	N	l=all men	2=all women	DF	Chi-Square	P-value
SUPRVISR				1,757	3.207	0.073
1	143	120 (83.92%)	23 (16.08%)		i ,	
2	615	549 (89.27%)	66 (10.73%)	1		
	758	669	89			

SUPRVISR: 0=non-supervisor, 1=supervisor

1=men 2=women

OCWKHRS (using row %)

N Tot=775	N	l=all men	2=all women	DF	Chi-Square	P-value
OCWKHRS				3,772	1.878	0.598
1	64	54 (84.38%)	10 (15.63%)			
2	535	471 (88.04%)	64 (11.96%)			
3	131	119 (90.84%)	12 (9.16%)			
4	45	39 (86.67%)	6 (13.33%)			
	775	683	92]	

OCWKHRS: 1=1-8, 2=9-12, 3=13-15, 4=16+

1=men 2=women

OCWKENDS (using row %)

N Tot=773	N	1=all men	2=all women	DF	Chi-Square	P-value
OCWKENDS				3,770	4.997	0.172
1	157	134 (85.35%)	23 (14.65%)			
2	422	383 (90.76%)	39 (9.24%)			
3	144	383 (90.76%)	21 (14.58%)			
4	50	123 (85.42%)	6 (12.00%)			
	773	684 (88.00%)	89			

OCWKENDS: 1=1-8, 2=9-12, 3=13-15, 4=16+

HOMEOT (using row %)

N Tot=782	N	1=all men	2=all women	DF	Chi-Square	P-value
HOMEOT	1			3,779	6.947	0.074
· 1	113	100 (88.50%)	13 (11.50%)			
2	226	191 (84.51%)	35 (15.49%)			
3	235	217 (92.34%)	18 (7.66%)			
4	208	182 (87.50%)	26 (12.50%)			
	782	690	92			

1=never, 2=seldom, 3=sometimes, 4=most of the time

1=men 2=women

DIFSCHED (using row %)

N Tot=767	N	1=all men	2=all women	DF	Chi-Square	P-value
DIFSCHED				1,766	6.879	0.009
1	391	334 (85.42%)	57 (14.58%)			
2	376	344 (91.49%)	32 (8.51%)			
-	767	678	89			

DIFSCHED: 1= would prefer diff sched 2=current sched okay

1=men 2=women

DTFLD (using row %)

			•			
N Tot=759	N	1=all men	2=all women	DF	Chi-Square	P-value
DTFLD	<u> </u>			5,754	4.089	0.5337
1	49	44 (89.80%)	5 (10.20%)		,	
2	80	70 (87.50%)	10 (12.50%)			
3	101	91 (90.10%)	10 (9.90%)			
4	159	145 (91.19%)	14 (8.81%)			
5	281	249 (88.61%)	32 (11.39%)			
6	89	74 (83.15%)	15 (16.85%)			
	759	673	759			

DTFLD: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

1=men 2=women

DTGAR (using row %)

N Tot=755	N	1=all men	2=all women	DF	Chi-Square	P-value
DTGAR				4,751	1.903	0.754
1	331	29 (93.55%)	2 (6.45%)			
2	66	59 (89.39%)	7 (10.61%)			
3	115	99 (86.09%)	16 (13.91%)			
4	163	147 (90.18%)	16 (9.82%)			
5	380	337 (88.68%)	43 (11.32%)			
	755	671	84			

DTGAR: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

AMTWRK (using row %)

N Tot=779	N	1=all men	2=all women	DF	Chi-Square	P-value
AMTWRK				2,777	0.323	0.851
1	316	281 (88.92%)	35 (11.08%)		!	
2	372	326 (87.63%)	46 (12.37%)		i l	
3	91	81 (89.01%)	10 (10.99%)			
	779	688	91			

AMTWRK: 1=too much, 2=about right, 3=not enough work

1=men 2=women

GETOUT (using row %)

	N	1=male	2=female	DF	Chi-Square	P-value
N Tot=779						
GETOUT				4, 775	8.657	0.070
1	234	215 (91.88%)	19 (8.12%)	:		
2	152	131 (86.18%)	21 (13.82%)			
3	149	136 (91.28%)	13 (8.72%)			
4	98	84 (85.71%)	14 (14.29%)			
5	146	122 (83.56%)	24 (16.44%)		·	
	779	688	91			

GETOUT: 1=definitely not, 2=probably not, 3=not sure, 4=probably get out, 5=definitely get out (want to get out of Army

1=men 2=women

PERMOR(using row %)

N Tot=773	N	1=male	2=female	DF	Chi-Square	P-value
PERMOR				4,769	35.616	0.000
1	49	36 (73.47%)	13 (26.53%)			
2	113	88 (77.88%)	25 (22.12%)			
3	301	266 (88.37%)	35 (11.63%)		ļ	
4	234	222 (94.87%)	12 (5.13%)			
5	76	72 (94.74%)	4 (5.26%)			
	773	684	89			

PERMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (personal morale)

SEX: 1=male 2=female

UNITMOR(using row %)

N Tot=766	N	1=male	2=female	DF	Chi-Square	P-value
UNIMOR				4,762	20.636	0.000
1	157	124 (78.98%)	33 (21.02%)			
2	187	165 (88.24%)	22 (11.76%)			
3	336	306 (91.07%)	30 (8.93%)			
4	72	69 (95.83%)	3 (4.17%)			
5	14	11 (78.57%)	3 (21.43%0			
	766	675	91			

UNITMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (unit morale)

W15A (using row %)

N Tot=776	N	1=male	2=female	DF	Chi-Square	P-value
W15A 1 2	128 648 776	106 (82.81%) 578 (89.20%) 684	22 (17.19%) 70 (10.80%)	1,775	4.170	0.041

W15A: 1=yes 2=no

Saw a chaplain or counselor since arriving on post

SEX: 1=male 2=female

SLCASALL (using row %)

N Tot=734	N	1=male	2=female	DF	Chi-Square	P-value
SLCASALL				1,733	3.262	0.071
0 (non-case)	713	634 (88.92%) 16 (76.19%	79 (11.08%) 5 (23.81%)		<u> </u>	
l (case)	21 734	650	84			

SLCASALL 1=caseness on customized 2 sd likert 0=non-case

SEX: 1=male 2=female

BMCASALL (using row %)

N Tot=734	N	1=male	2=female	DF	Chi-Square	P-
14 101 154	• •					value
BMCASALL 0 (non-case) 1 (case)	704 30 734	625 (88.78%) 25 (83.33%) 650	79 (11.22%) 5 (16.67%) 84	1,733	0.842	0.359

BMCASALL 1=caseness on customized 2 sd binary 0=non-case

SEX: 1=male 2=female

MISSWORK (using row %)

N Tot=782	N	1=male	2=female	DF	Chi-Square	P-value
MISSWORK				1,781	0.053	0.818
0 (non-case)	727	642 (88.31%)	85 (11.69%)			
1 (case)	55	48 (87.27%)	7 (12.73%)		1	
,	782	690	92			<u> </u>

MISSWORK 1=miss work sometimes-always due to psych prob 0=never/rarely

SEX: 1=male 2=female

TAKEMEDS (using row %)

N Tot=779	N	1=male	2=female	DF	Chi-Square	P-value
TAKEMEDS			0. (1.1.510()	1,778	0.650	0.420
0 (no meds) l (meds)	704 75	623 (88.49%) 64 (85.33%)	81 (11.51%) 11 (14.67%)			
, ,	779	687	92			

TAKEMEDS 1=takes meds for psych prob 0=does not take meds for psych prob

MDFREQNT (using row %)

N Tot=780	N	l=male	2=female	DF	Chi-Square	P-value
MDFREQNT				1,779	7.543	0.006
0 (infreq)	712	635 (89.19%)	77 (10.81%)			
1 (freq)	68	53 (77.94%)	15 (22.06%)			
	780					

MDFREQNT 1=freqent visits to doctors during past month 2=infreq or no MD visits

SEX: 1-male 2-female

column %)

OCEDUC (using column %)

N Tot=782	N	l=all men	2=all women	DF	Chi-Square	P-value
OCEDUC				2,780	3.341	0.188
1	429	387 (56.01%)	42 (46.15%)			
2	302	261 (37.77%)	41 (45.05%)			
3	51	43 (6.22%)	8 (8.79%)			
	782	691	91			

OCEDUC: 1=hs or less, 2=some college, 3=college/college +

1=men 2=women

OCRACE (using column %)

N Tot=778	N	l=all men	2=all women	DF	Chi-Square	P-value
OCRACE				2,776	10.867	0.004
1	417	380 (55.39%)	37 (40.22%)			
2	220	181 (26.38%)	39 (42.39%)			
3	141	125 (18.22%)	16 (17.39%)			
	778	686	92			

OCRACE: 1=white, 2=black, 3=other

1=men 2=women

MARSTAT (using column %)

N Tot=781	N	1=all men	2=all women	DF	Chi-Square	P-value		
MARSTAT				5,776	29.300	0.000		
1	69	52 (7.55%)	17 (18.48%)			•		
2	69	57 (8.37%)	12 (13.04%)					
3	63	51 (7.40%)	12 (13.04%)					
4	1	0 (0.00%)	1 (1.09%)					
5	146	134 (19.45%)	12 (13.04%)					
6	433	395 (57.33%)	38 (41.30%)					
	781	689	92					

MARSTAT: 1=nvr mar, 2=div, 3=sep, 4=wid, 5=remarried, 6=1st marriage

OCMARRIG (using column %)

N Tot=781	N	1=all men	2=all women	DF	Chi-Square	P-value
OCMARRIG				2,779	22.787	0.000
.0	69	52 (7.55%)	17 (18.48%)			
1	133	108 (15.67%)	25 (27.17%)			
2	579	529 (76.78%)	50 (54.355%)			
	781	689	92		<u> </u>	

OCMARRIG: 0=nvr marr 1=if loss, 2=if married

1=men 2=women

OCLOCAT (using column %)

N Tot=785	N	1=all men	2=all women	DF	Chi-Square	P-value
OCLOCAT				1,784	0.130	0.719
0	260	228 (32.90%)	32 (34.78%)		:	
1	525	465 (67.10%)	60 (65.22%)			
·	785	693	92			

OCLOCAT: 0=Ft. Ord 1=Ft. Carson

1=men 2=women

RESIDE (using column %)

N Tot=782	N	1=all men	2=all women	DF	Chi-Square	P-value
RESIDE				2,780	11.948	0.003
1	93	77 (11.16%)	16 (17.39%)			
2	215	203 (29.42%)	12 (13.04%)		ļ.	
3	474	410 (59.42%)	64 (69.57%)			
	782	690	92			

RESIDE: 1=barracks, 2=on-post, 3=off-post

1=men 2=women

SUPRVISR (using column %)

			` `			
N Tot=758	N	l=all men	2=all women	DF	Chi-Square	P-value
SUPRVISR	<u> </u>			1,757	3.207	0.073
1	143	120 (17.94%)	23 (255.84%)			
2	615	549 (82.06%)	66 (74.16%)			
	758	669	89		1	

SUPRVISR: 0=non-supervisor, 1=supervisor

1=men 2=women

OCWKHRS (using column %)

N Tot=775	N	1=all men	2=all women	DF	Chi-Square	P-value
OCWKHRS				3,772	1.878	0.598
1	64	54 (7.91%)	10 (10.87%)			
2	535	471 (68.96%)	64 (69.57%)			
3	131	119 (17.42%)	12 (13.04%)		1	
4	45	39 (5.71%)	6 (6.52%)		<u> </u>	
	775	683	92			

OCWKHRS: 1=1-8, 2=9-12, 3=13-15, 4=16+

OCWKENDS (using column %)

N Tot=773	N	1=all men	2=all women	DF	Chi-Square	P-value
OCWKENDS				3,770	4.997	0.172
· 1	157	134 (19.59%)	23 (25.84%)			
2	422	383 (55.99%)	39 (43.82%)			
3	144	123 (17.98%)	21 (2360%)			
4	50	44 (6.43%)	6 (6.74%)			
	773	684 (%)	89			

OCWKENDS: 1=1-8, 2=9-12, 3=13-15, 4=16+

1=men 2=women

HOMEOT (using column %)

N Tot=782	N	1=all men	2=all women	DF	Chi-Square	P-value
HOMEOT				3,779	6.947	0.074
1	113	100 (14.49%)	13 (14.13%)			
2	226	191 (27.68%)	35 (38.04%)			
3	235	217 (31.45%)	18 (19.57%)			
4	208	182 (26.38%)	26 (28.26%)			
	782	690	92			

1=never, 2=seldom, 3=sometimes, 4=most of the time

1=men 2=women

DIFSCHED (using column %)

					· · · · · · · · · · · · · · · · · · ·	
N Tot=767	N	l=all men	2=all women	DF	Chi-Square	P-value
DIFSCHED				1,766	6.879	0.009
1	391	334 (49.26%)	57 (64.04%)	Į.		
2	376	344 (50.74%)	32 (35.96%)	l		
	767	678	89	[

DIFSCHED: 1= would prefer diff sched 2=current sched okay

1=men 2=women

DTFLD (using column %)

N Tot=759	N	1=all men	2=all women	DF	Chi-Square	P-value
DTFLD				5,754	4.089	0.5337
1	49	44 (6.54%)	5 (5.81%)			
2	80	70 (10.40%)	10 (11.63%)			
3	101	91 (13.52%)	10 (11.63%)			
4	159	145 (21.55%)	14 (16.28%)			
5	281	249 (37.00%)	32 (37.21%)			
6	89	74 (11.00%)	15 (17.44%)			
	759	673	759			

DTFLD: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

DTGAR (using column %)

N Tot=755	N	1=all men	2=all women	DF	Chi-Square	P-value
DTGAR				4,751	1.903	0.754
-1	331	29 (4.32%)	2 (2.338%)			
2	66	59 (8.79%)	7 (8.33%)			
3	115	99 (14.75%)	16 (19.05%)			
4	163	147 (21.91%)	16 (19.05%)			
5	380	337 (50.22%)	43 (51.19%)		i	
	755	671	84			

DTGAR: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

1=men 2=women

AMTWRK (using column %)

N Tot=779	N	1=all men	2=all women	DF	Chi-Square	P-value
AMTWRK				2,777	0.323	0.851
1	316	281 (40.84%)	35 (38.46%)			
2	372	326 (47.38%)	46 (50.55%)			
3	91	81 (11.77%)	10 (10.99%)			
	779	688	91			

AMTWRK: 1=too much, 2=about right, 3=not enough work

1=men 2=women

GETOUT (using column %)

			`			
<u> </u>	N	1=male	2=female	DF	Chi-Square	P-value
N Tot=779						
GETOUT				4, 775	8.657	0.070
1	234	215 (31.25%)	19 (20.88%)			
2	152	131 (19.04)	21 (23.08%)			
3	149	136 (19.77%)	13 (14.29%)			
4	98	84 (12.21%)	14 (15.38%)			
5	146	122 (17.73%)	24 (26.37%)			
	779	688	91			

GETOUT: 1=definitely not, 2=probably not, 3=not sure, 4=probably get out, 5=definitely get out (want to get out of Army

1=men 2=women

PERMOR(using column %)

N Tot=773	N	1=male	2=female	DF	Chi-Square	P-value
PERMOR				4,769	35.616	0.000
1	49	36 (5.26%)	13 (14.61%)			
2	113	88 (12.87%)	25 (28.09%)			
3	301	266 (38.89%)	35 (39.33%)			
4	234	222 (32.46%)	12 (13.48%)			
5	76	72 (10.53%)	4 (4.49%)			
	773	684	89			<u></u>

PERMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (personal morale)

UNITMOR(using column %)

N Tot=766	N	1=male	2=female	DF	Chi-Square	P-value
UNIMOR				4,762	20.636	0.000
· 1	157	124 (18.37%)	33 (36.26%)			
2	187	165 (24.44%)	22 (24.18%)			
3	336	306 (45.33%)	30 (32.97%)			
4	72	69 (10.22%)	3 (3.30%)			
5	14	11 (1.63%)	3 (3.30%)			
	766	675	91			

UNITMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (unit morale)

SEX: 1=male 2=female

W15A (using column %)

N Tot=776	N	1=male	2=female	DF	Chi-Square	P-value
W15A				1,775	4.170	0.041
1	128	106 (15.50%)	22 (23.91%)			
2	648	578 (84.50%)	70 (76.09%)			
	776	684				

W15A: 1=yes 2=no

Saw a chaplain or counselor since arriving on post

SEX: 1=male 2=female

SLCASALL (using column%)

N Tot=734	N	1=male	2=female	DF	Chi-Square	P-value
SLCASALL				1,733	3.262	0.071
0 (non-case)	713	634 (97.54%)	79 (94.05%)			
1 (case)	21	16 (2.46%)	5 (5.95%)			
	734	650	84			

SLCASALL 1=caseness on customized 2 sd likert 0=non-case

SEX: 1=male 2=female

BMCASALL (using column %)

N Tot=734	N	1=male	2=female	DF	Chi-Square	P- value
BMCASALL 0 (non-case) 1 (case)	704 30 734	625 (96.15%) 25 (3.85%) 650	79 (94.05%) 5 (5.95%) 84	1,733	0.842	0.359

BMCASALL 1=caseness on customized 2 sd binary 0=non-case

MISSWORK (using column%)

N Tot=782	N	1=male	2=female	DF	Chi-Square	P-value
MISSWORK 0 (non-case) 1 (case)	727 55 782	642 (93.04%) 48 (6.96%) 690	85 (92.39%) 7 (7.61%) 92	1,781	0.053	0.818

MISSWORK 1=miss work sometimes-always due to psych prob 0=never/rarely

SEX: 1=male 2=female

TAKEMEDS (using column %)

N Tot=779	N	1=male	2=female	DF	Chi-Square	P-value
TAKEMEDS 0 (no meds) 1 (meds)	704 75 779	623 (90.68%) 64 (9.32%) 687	81 (88.04%) 11 (11.96%) 92	1,778	0.650	0.420

TAKEMEDS 1=takes meds for psych prob 0=does not take meds for psych prob

SEX: 1=male 2=female

MDFREQNT (using column %)

N Tot=780	N	1=male	2=female	DF	Chi-Square	P-value
MDFREQNT 0 (infreq) 1 (freq)	712 68 780	635 (92.30%) 53 (7.70%)	77 (83.70%) 15 (16.30%)	1,779	7.543	0.006

MDFREQNT 1=freqent visits to doctors during past month 2=infreq or no MD visits

SEX: 1=male 2=female

SLGHQ

(total score on likert scored GHQ) (1=male 2=female)

SLGHQ	i N	Mean	S.D.	Variance	Т	DF	P-value
1	650	44.4867	24.6263	Unequal	-1.8397	101.1	0.0687
2	84	50.2711	27.4232	Equal	-1.9989	732.0	0.0460

F(83,649) = 1.24, p = .1668

BMGHQ

(total score on binary scored GHQ)

(1=male 2=female)

BMGHQ	l N	Mean	S.D.	Variance	T	DF	P-value
1	650	7.7231	11.1414	Unequal	-2.1878	99.3	0.0310
2	84	10.9816	13.0495	Equal	-2.4709	732.0	0.0137

F(83,649) = 1.37, p = .0416

V8

(total GWB score - 2 missing allowed)

(1=male 2=female)

V8	N	Mean	S.D.	Variance	T	DF	P-value
1	676	67.0238	19.5900	Unequal	1.9655	115.0	0.0518
2	90	62.7706	19.2444	Equal	1.9389	764.0	0.0529

F(675,89) = 1.04, p = .8562

V9

(total GWB score - no missing allowed)

(1=male 2=female)

V9	N	Mean	S.D.	Variance	Т	DF	P-value
1	623	67.1091	19.3529	Unequal	1.4596	106.1	0.1474
2	83	63.8675	18.9607	Equal	1.4369	704.0	0.1512

F(622,82) = 1.04, p = .8396

GWBWOR

(GWB subscale score for health worry; high score reflects a self-representation of well-being-)

(1=male 2=female)

GWBWOR	N	Mean	S.D.	Variance	T	DF	P-value
1	652	9.6917	4.0025	Unequal	-0.2095	113.4	0.8344
2	89	9.7865	4.0042	Equal	-0.2096	739.0	0.8340

F(88,651) = 1.00, p = .9633

GWBENE

(GWB subscale score for energy; high score reflects a self-representation of well-being-)

(1=male 2=female)

GWBENE	N	Mean	S.D.	Variance	T	DF	P-value
1	673	10.6627	4.4381	Unequal	3.0621	109.5	0.0028
2	88	9.0795	4.5769	Equal	3.1355	759.0	0.0018

F(87,672) = 1.06, p = .6701

GWBSAT

(GWB subscale score for satisfying/interesting life; high score reflects a self-representation of well-being-)

(1=male 2=female)

GWBSAT	N	Mean	S.D.	Variance	Т	DF	P-value
1	683	5.1318	2.2988	Unequal	1.3888	109.4	0.1677
2	89	4.7528	2.4368	Equal	1.4526	770.0	0.1468

F(88,682) = 1.12, p = .4358

GWBCHR

(GWB subscale score for cheerful mood; high score reflects a self-representation of well-being-)

(1=male 2=female)

GWBCHR	N	Mean	S.D.	Variance	Т	DF	P-value
1	669	15.7803	5.0276	Unequal	2.5517	115.9	0.0120
2	90	14.3778	4.8773	Equal	2.4932	757.0	0.0129

F(668,89) = 1.06, p = .7367

GWBTEN

(GWB subscale score for relaxed vs. tense; high score reflects a self-representation of well-being-)

(1=male 2=female)

GWBTEN	N	Mean	S.D.	Variance	T	DF	P-value
1	674	14.6261	5.5374	Unequal	1.4270	115.2	0.1563
2	90	13.7556	5.4222	Equal	1.4043	762.0	0.1607

F(673,89) = 104., p = .8251

GWBEMO

(GWB subscale score for emotional/behavioral control; high score reflects self-representation of well-being)

(1=male 2=female)

GWBEMO	N	Mean	S.D.	Variance	Т	DF	P-value
1	682	11.2287	3.4082	Unequal	-0.1184	119.3	0.9050
2	89	11.2697	3.0180	Equal	-0.1079	769.0	0.9141

 $F(681,88) = 1.28 \quad p = .1531$

JUNIOR ENLISTED MEN vs. JUNIOR ENLISTED WOMEN

OCEDUC (using row %)

			•			
N Tot=1426	N	1=men	2=women	DF	Chi-Square	P-value
OCEDUC				2,1424	25.815	0.000
1	1056	860 (81.44%)	196 (18.56%)			
2	327	223 (68.20%)	104 (31.80%)			
3	43	34 (79.07%)	9 (20.93%)			
	1426	1117	309			

OCEDUC: 1=hs or less, 2=some college, 3=college/college +

1=men 2=women

OCRACE (using row %)

N Tot=1428	N	l=men	2=women	DF	Chi-Square	P-value
OCRACE				2,1426	16.399	0.000
1	883	716 (81.09%)	167 (18.91%)			
2	390	277 (71.03%)	113 (28.97%)			
3	155	124 (80.00%)	31 (20.00%)			
	1428	1117	311			

OCRACE: 1=white, 2=black, 3=other

1=men 2=women

MARSTAT (using row %)

N Tot=1429	N	1=men	2=women	DF	Chi-Square	P-value
GETOUT				5,1424	30.378	0.000
1	7221	578 (80.17%)	143 (19.83%)			
2	54	40 (74.07%)	14 (25.93%)			
3	64	39 (60.94%)	25 (39.06%)			
4	2	0 (0,00%)	2 (100.00%)			
5	53	33 (62.26%)	20 (37.74%)			
6	535	431 (80.56%)	104 (19.44%)			
	1429	1121	308			

MARSTAT: 1=nvr mar, 2=div, 3=sep, 4=wid, 5=remarried, 6=1st marriage

OCMARRIG (using row %)

N Tot=1429	N	1=men	2=women	DF	Chi-Square	P-value
OCMARRIG				2,1427	12.628	0.002
0	721	578 (80.17%)	143 (19.83%)			
1	120	79 (65.83%)	41 (34.17%)			
2	588	464 (78.91%)	124 (21.09%)			·
	1429	1121	308			

OCMARRIG: 0=nvr marr 1=if loss, 2=if married

1=men 2=women

OCLOCAT (using row %)

N Tot=1436	N	l=men	2=women	DF	Chi-Square	P-value
OCLOCAT				1,1435	1.995	0.158
0	406	328 (80.79%)	78 (19.21%)			
1	1030	797 (77.38%)	233 (22.62%)			
	1436	1125	311			

OCLOCAT: 0=Ft. Ord 1=Ft. Carson

1=men 2=women

RESIDE (using row %)

N Tot=1397	N	l=men	2=women	DF	Chi-Square	P-value
RESIDE				2,1395	12.489	0.002
1	718	578 (80.50%)	140 (19.50%)			
2	90	78 (86.67%)	12 (13.33%)			
3	589	435 (73.85%)	154 (26.15%)			
	1397	1091	306			

RESIDE: 1=barracks, 2=on-post, 3=off-post

(want to get out of Army

1=men 2=women

SUPRVISR (using row %)

N Tot=1405	N	1=men	2=women	DF	Chi-Square	P-value
SUPRVISR				1,1404	1.195	0.274
1	1217	962 (79.05%)	255 (20.95%)	ŀ		
2	188	142 (75.53%)	46 (24.47%)			
	1405	1104	301			

SUPRVISR: 0=non-supervisor, 1=supervisor

OCWKHRS (using row %)

N Tot=1410	N	1=men	2=women	DF	Chi-Square	P-value
OCWKHRS				3,1407	11.856	0.008
1	265	222 (83.77%)	43 (16.23%)			
2	1009	765 (75.82%)	244 (24.18%)			
3	111	91 (81.98%)	20 (18.02%)			
4	25	23 (92.00%)	2 (8.00%)			
	1410	1101	309			

OCWKHRS: 1=1-8, 2=9-12, 3=13-15, 4=16+

1=men 2=women

OCWKENDS (using row %)

N Tot=1402	N	1=men	2=women	DF	Chi-Square	P-value
OCWKENDS				3,1399	3.893	0.273
1	514	398 (77.43%)	116 (22.57%)			
2	675	542 (80.30%)	133 (19.70%)			
3	155	114 (73.55%)	41 (26.45%)			
4	58	45 (77.59%)	13 (22.41%)			
	1402	1099	303			

OCWKENDS: 1=1-8, 2=9-12, 3=13-15, 4=16+

1=men 2=women

HOMEOT (using row %)

			`	_		
N Tot=1433	N	1=men	2=women	DF	Chi-Square	P-value
HOMEOT				3,1430	3.795	0.285
1	190	141 (74.21%)	49 (25.72%)			ļ
2	351	280 (79.77%)	71 (20.23%)			
3	414	318 (76.81%)	96 (23.19%)			
4	478	383 (80.13%)	95 (19.87%)			1
	1433	1122	311			

1=never, 2=seldom, 3=sometimes, 4=most of the time

1=men 2=women

DIFSCHED (using row %)

N Tot=1412	N	l=men	2=women	DF	Chi-Square	P-value
DIFSCHED				1,1411	1.118	0.290
1	710	550 (77.46%)	160 (22.54%)			
2	702	560 (79.77%)	142 (20.23%)			
	1412	1110	302			

DIFSCHED: 1= would prefer diff sched 2=current sched okay

DTFLD (using row %)

N Tot=1373	N	1=men	2=women	DF	Chi-Square	P-value
DTFLD				5,1368	18.499	0.002
· 1	137	107 (78.10%)	30 (21.90%)			
2	163	138 (84.66%)	25 (15.34%)			
3	189	153 (80.95%)	36 (19.05%)			
4	255	214 (83.992%)	41 (16.08%)			
5	455	347 (76.26%)	108 (23.74%)			
6	174	121 (69.54%)	53 (30.46%)			
	1373	1080	293			

DTFLD: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

1=men 2=women

DTGAR (using row %)

N Tot=1351	N	1=men	2=women	DF	Chi-Square	P-value
DTGAR				4,1347	2.239	0.692
1	132	105 (79.55%)	27 (20.45%)			
2	146	113 (77.40%)	33 (22.60%)			
3	282	231 (81.91%)	51 918.09%)			
4	322	254 (78.88%)	68 (21.12%)			
5	469	364 (77.61%)	105 (22.39%)			
	1351	1067	284			

DTGAR: 1=alm ali, 2=>half, 3=@half, 4=<half, 5=@0, 6=

1=men 2=women

AMTWRK (using row %)

N Tot=1403	N	l=men	2=women	DF	Chi-Square	P-value
AMTWRK			•	2,1401	2.172	0.338
1	376	296 (78.72%)	80 (21.28%)			
2	727	559 (76.89%)	168 (23.11%)			
3	300	243 (81.00%)	57 (19.00%)		,	
	1403	1098	305			

AMTWRK: 1=too much, 2=about right, 3=not enough work

1=men 2=women

GETOUT (using row %)

N Tot=1426	N	1=men	2=women	DF	Chi-Square	P-value
GETOUT				4, 1422	14.929	0.005
1	171	123 (71.93%)	48 (28.07%)			
2	244	189 (77.46%)	55 (22.54%)			
3	284	229 (80.63%)	55 (22.54%)			
4	234	169 (72.22%)	65 (27.78%)	1		
5	493	406 (82.35%)	87 (17.65%)			
	1426	1116	310		:	

GETOUT: 1=definitely not, 2=probably not, 3=not sure, 4=probably get out, 5=definitely get out (want to get out of Army

PERMOR(using row %)

N Tot=1419	N	1=men	2=women	DF	Chi-Square	P-value
PERMOR				4, 1415	6.733	0.151
1	185	135 (72.97%)	50 (27.03%)			
2	254	195 (76.77%)	59 (23.23)			
3	569	463 (81.37%)	106 (18.63%)			
4	310	241 (77.74%)	69 (22.26%)			
5	101	78 (77.23%)	23 (22.77%)		•	
	1419	1112	307			

PERMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (personal morale)

SEX: 1=male 2=female

W15A (using row %)

N Tot=1420	N	1=men	2=women	DF	Chi-Square	P-value
W15A				1,1429	1.930	0.165
0 (male)	269	202 (75.09%)	67 (24.91%)			
1 (female)	1151	909 (78.97%)	242 (21.03%)			
	1420	1111	309			

W15A: 1=yes 2=no Saw a chaplain or counselor since arriving on post

SEX: 1=male 2=female

UNITMOR(using row %)

N Tot=1398	N	l=men	2=women	DF	Chi-Square	P-value
UNIMOR				4,1394	15.182	0.004
1	467	339 (72.59%)	129 (27.41%)			
2	375	303 (80.80%)	72 (19.20%)			
3	461	379 (82.21%)	82 (17.79%)			
4	81	61 (75.31%)	20 (24.69%)			
5	14	10 (71.43%)	4 (28.57%)			
	1398	1092	306			

UNITMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high

(personal morale) SEX: 1=male 2=female

SLCASALL (using row %)

N Tot=1356	N	1=men	2=women	DF	Chi-Square	P-value
SLCASALL				1,1355	0.183	0.669
0 (non-case)	1292	1000 (77.40%)	292 (22.60%) 13 (20.31%)			
1 (case)	1356	51 (79.69%) 1051	305			

SLCASALL 1=caseness on customized 2 sd likert 0=non-case

BMCASALL (using row %)

N Tot=1356	N	1=men	2=women	DF	Chi-Square	P-value
BMCASALL				1,1355	0.244	0.622
0 (non-case)	1263	977 (77.36%)	286 (22.64%)			
1 (case)	93	74 (79.57%)	19 (20.43%)			İ
	1356	1051	305			

BMCASALL 1=caseness on customized 1 sd binary 0=non-case

SEX: 1=male 2=female

MISSWORK (using row %)

N Tot=1424	N	l=men	2=women	DF	Chi-Square	P-value
MISSWORK				1,1423	1.865	0.172
0 (non-case)	144	967 (77.73%)	277 (22.27%)			
l (case)	180	148 (82.22%)	32 (17.78%)			
	1424	1115	·			

MISSWORK 1=miss work sometimes-always due to psych prob 0=never/rarely

SEX: 1=male 2=female

TAKEMEDS (using row %)

N Tot=1427	N	1=men	2=women	DF	Chi-Square	P-value
TAKEMEDS				1,1426	2.222	0.136
0 (no meds)	1284	999 (77.80%)	285 (22.20%)			
1 (meds)	143	119 (83.22%)	24 (16.78%)			
	1427	1118	309			

TAKEMEDS 1=takes meds for psych prob 0=does not take meds for psych prob

SEX: 1=male 2=female

MDFREQNT (using row %)

N Tot=1426	N	1=men	2=women	DF	Chi-Square	P-value
MDFREQNT				1,14.603	14.603	0.000
0 (infreq)	1233	987 (80.05%)	246 (19.95%)			
1 (freq)	193	131 (67.88%)	62 (32.12%)			
-	1426	1118	308		ļ	

MDFREQNT 1=freqent visits to doctors during past month 2=infreq or no MD visits

column %

OCEDUC (using column%)

N Tot=1426	N	1=men	2=women	DF	Chi-Square	P-value
OCEDUC				2,1424	25.815	0.000
1	1056	860 (76.99%)	196 (63/43%)	ĺ		
2	327	223 (19.96%)	104 (33.66%)	:		
3	43	34 (3.04%)	9 (2.91%)			
	1426	1117	309			

OCEDUC: 1=hs or less, 2=some college, 3=college/college +

1=men 2=women

OCRACE (using column%)

N Tot=1428	N	1=men	2=women	DF	Chi-Square	P-value
OCRACE				2,1426	16.399	0.000
1	883	716 (64.10%)	167 (53.70%)			
2	390	277 (24.80%)	113 (36.33%)		İ	
3	155	124 (11.10%)	31 (9.97%)			
	1428	1117	311			

OCRACE: 1=white, 2=black, 3=other

1=men 2=women

MARSTAT (using column %)

37.55 . 1400	NI	1an	2=women	DF	Chi-Square	P-value
N Tot=1429	N	l=men	2-Wollich			
GETOUT				5,1424	30.378	0.000
1	7221	578 (51.56%)	143 (46.43%)			
2	54	40 (3.57%)	14 (4.55%)			
3	64	39 (3.48%)	25 (8.12%)			
4	2	0 (0%)	2 (0.65%)	l		
5	53	33 (2.94%)	20 (6.49%)	ŀ		
6	535	431 (38.45%)	104 (33.77%)			
•	1429	1121	308			

MARSTAT: 1=nvr mar, 2=div, 3=sep, 4=wid, 5=remarried, 6=1st marriage

1=men 2=women

OCMARRIG (using column%)

N Tot=1429	N	l=men	2=women	DF	Chi-Square	P-value
OCMARRIG				2,1427	12.628	0.002
0	721	578 (51.56%)	143 (46.43%)			
1	120	79 (7.05%)	41 (13.31%)			
2	588	464 (41.39%)	124 (40.26%)			
	1429	1121	308			

OCMARRIG: 0=nvr marr 1=if loss, 2=if married

OCLOCAT (using column%)

N Tot=1436	N	1=men	2=women	DF	Chi-Square	P-value
OCLOCAT				1,1435	1.995	0.158
. 0	406	328 (29.16%)	78 (25.08%)			
1	1030	797 (70.84%)	233 (74.92%)			
	1436	1125	311			

OCLOCAT: 0=Ft. Ord 1=Ft. Carson

1=men 2=women

RESIDE (using column%)

N Tot=1397	N	l=men	2=women	DF	Chi-Square	P-value
RESIDE				2,1395	12.489	0.002
1	718	578 (52.98%)	140 (45.75%)			
2	90	78 (7.15%)	12 (3.92%)			
3	589	435 (39.87%)	154 (50.33%)			:
	1397	1091	306			

RESIDE: 1=barracks, 2=on-post, 3=off-post

1=men 2=women

SUPRVISR (using column%)

N Tot=1405	N	1=men	2=women	DF	Chi-Square	P-value
SUPRVISR				1,1404	1.195	0.274
1	1217	962 (87.14%)	255 (84.72%)			
2	188	142 (12.86%)	46 (15.28%)			
	1405	1104	301			

SUPRVISR: 0=non-supervisor, 1=supervisor

1=men 2=women

OCWKHRS (using column %)

			•			
N Tot=1410	N	l=men	2=women	DF	Chi-Square	P-value
OCWKHRS				3,1407	11.856	0.008
1	265	222 (20.16%)	43 (13.92%)			
2	1009	765 (69.48%)	244 (78.96%)			
3	111	91 (8.27%)	20 (6.47%)			
4	25	23 (2.09%)	2 (0.65%)			
	1410	1101	309			

OCWKHRS: 1=1-8, 2=9-12, 3=13-15, 4=16+

1=men 2=women

OCWKENDS (using column %)

			` `			
N Tot=1402	N	1=men	2=women	DF	Chi-Square	P-value
OCWKENDS				3,1399	3.893	0.273
1	514	398 (36.21%)	116 (38.28%)			
2	675	542 (49.32%)	133 (43.89%)			
3	155	114 (10.37%)	41 (13.53%)			
4	58	45 (4.09%)	13 (4.29%)			
	1402	1099	303			

OCWKENDS: 1=1-8, 2=9-12, 3=13-15, 4=16+

HOMEOT (using column%)

			`			
N Tot=1433	N	1=men	2=women	DF	Chi-	P-value
11 101 111					Square	
HOMEOT				3,1430	3.795	0.285
1	190	141 (12.57%)	49 (15.76%)			
2	351	280 (24.96%)	71 (22.83%)			
2	į į	318 (28.34%)	96 (30.87%)			1
3	414			1		
4	478	383 (34.14%)	95 (30.55%)			-
	1433	1122	311			<u> </u>

1=never, 2=seldom, 3=sometimes, 4=most of the time

1=men 2=women

DIFSCHED (using column%)

N Tot=1412	N	1=men	2=women	DF	Chi-Square	P-value
DIFSCHED				1,1411	1.118	0.290
1	710	550 (49.55%)	160 (52.98%)			
2	702	560 (50.45%)	142 (47.02%)			
-	1412	1110	302			

DIFSCHED: 1= would prefer diff sched 2=current sched okay

1=men 2=women

DTFLD (using column%)

N Tot=1373	N	l=men	2=women	DF	Chi-Square	P-value
DTFLD				5,1368	18.499	0.002
1	137	107 (9.91%)	30 (10.24%)			
2	163	138 (12.78%)	25 (8.53%)			
3	189	153 (14.17%)	36 (12.29%)		[
4	255	214 (19.81%)	41 (13.99%)			
5	455	347 (32.13%)	108 (36.86%)			
6	174	121 (11.20%)	53 (18.09%)			
	1373	1080	293			

DTFLD: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

1=men 2=women

DTGAR (using column%)

			` '			
N Tot=1351	N	l=men	2=women	DF	Chi-Square	P-value
DTGAR				4,1347	2.239	0.692
1	132	105 (9.84%)	27 (9.51%)			
2	146	113 (10.59%)	33 (11.62%)			
3	282	231 (21.65%)	51 (17.96%)			
4	322	254 (23.81%)	68 (23.94%)			
5	469	364 (34.11%)	105 (36.97%)			
	1351	1067	284			

DTGAR: 1=alm all, 2=>half, 3=@half, 4=<half, 5=@0, 6=

AMTWRK (using column %)

N Tot=1403	N	1=men	2=women	DF	Chi-Square	P-value
AMTWRK				2,1401	2.172	0.338
- 1	376	296 (26.96%)	80 (26.23%)			
2	727	559 (50.91%)	168 (55.08%)			
3	300	243 (22.13%)	57 (18.69%)			
	1403	1098	305			

AMTWRK: 1=too much, 2=about right, 3=not enough work

1=men 2=women

GETOUT (using column %)

N Tot=1426	N	1=men	2=women	DF	Chi-Square	P-value
GETOUT				4, 1422	14.929	0.005
1	171	123 (11.02%)	48 (15.48%)			
2	244	189 (16.94%)	55 (17.74%)			
3	284	229 (20.52%)	55 (17.74%)			
4	234	169 (15.14%)	65 (20.97%)			
5	493	406 (36.38%)	87 (28.06%)			
	1426	1116	310			

GETOUT: 1=definitely not, 2=probably not, 3=not sure, 4=probably get out, 5=definitely get out

(want to get out of Army SEX: 1=male 2=female

PERMOR(using column %)

N Tot=1419	N	l=men	2=women	DF	Chi-Square	P-value
PERMOR				4, 1415	6.733	0.151
1	185	135 (12.14%)	50 (16.29%)			
2	254	195 (17.54%)	59 (19.22%)			:
3	569	463 (41.64%)	106 (34.53%)			
4	310	241 (21.67%)	69 (22.48%)			
5	101	78 (7.01%)	23 (7.49%)			
	1419	1112	307			

PERMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (personal morale)

SEX: 1=male 2=female

UNITMOR(using column %)

			` `			
N Tot=1398	N	l=men	2=women	DF	Chi-Square	P-value
UNIMOR				4,1394	15.182	0.004
1	467	339 (31.04%)	129 (41.83%)			
2	375	303 (27.75%)	72 (23.53%)			
3	461	379 (34.71%)	82 (26.80%)			
4	81	61 (5.59%)	20 (6.54%)			
5	14	10 (0.92%)	4 (1.31%)			
	1398	1092	306			

UNITMOR: 1=very low, 2=low, 3=moderate, 4=high, 5=very high (unit morale)

W15A (using column %)

N Tot=1420	N	1=men	2=women	DF	Chi-Square	P-value
W15A 0 (male)	269	202 (18.18%)	67 (21.68%)	1,1429	1.930	0.165
1 (female)	1151	909 (81.82%)	242 (78.32%) 309			

W15A: 1=yes 2=no

Saw a chaplain or counselor since arriving on post

SEX: 1=male 2=female

SLCASALL (using column %)

N Tot=1356	N	l=men	2=women	DF	Chi-Square	P-value
SLCASALL				1,1355	0.183	0.669
0 (non-case)	1292	1000 (95.15%)	292 (95.74%)			
l (case)	64	51 (4.85%)	13 (4.26%)			
• •	1356	1051	305			

SLCASALL 1=caseness on customized 2 sd likert 0=non-case

SEX: 1=male 2=female

BMCASALL (using column %)

N Tot=1356	N	1=men	2=women	DF	Chi-Square	P-value
BMCASALL				1,1355	0.244	0.622
0 (non-case) 1 (case)	1263 93	977 (92.96%) 74 (7.04%)	286 (93.77%) 19 (6.23%)			
. ,	1356	1051	305	<u> </u>		

BMCASALL 1=caseness on customized 2 sd binary 0=non-case

SEX: 1=male 2=female

MISSWORK (using column %)

N Tot=1424	N	1=men	2=women	DF	Chi-Square	P-value
MISSWORK				1,1423	1.865	0.172
0 (non-case)	144	967 (86.73%)	277 (89.64%)			
1 (case)	180	148 (13.27%)	32 (10.36%)			
•	1424	1115	309			

MISSWORK 1=miss work sometimes-always due to psych prob 0=never/rarely

SEX: 1=male 2=female

TAKEMEDS (using column%)

N Tot=1427	N	1=men	2=women	DF	Chi-Square	P-value
TAKEMEDS				1,1426	2.222	0.136
0 (no meds)	1284	999 (89.36%)	285 (92.23%)			
1 (meds)	143	119 (10.64%)	24 (7.77%)			
, ,	1427	1118	309		ĺ	

TAKEMEDS 1=takes meds for psych prob 0=does not take meds for psych prob

MDFREQNT (using column%)

N Tot=1426	N	1=men	2=women	DF	Chi-Square	P-value
MDFREQNT				1,14.603	14.603	0.000
0 (infreq)	1233	987 (88.28%)	246 (79.87%)			
1 (freq)	193	131 (11.72%)	62 (20.13%)			
•	1426	1118	308			

MDFREQNT 1=freqent visits to doctors during past month 2=infreq or no MD visits

SEX: 1=male 2=female

SLGHQ

(total score on likert scored GHQ)

(1=men 2=women)

SLGHQ	N	Mean	S.D.	Variance	T	DF	P-value
1	1051	50.3369	27.3994	unequal	-1.5321	516.5	0.1261
2	305	52.9573	25.9573	Equal	-1.4875	1354.0	0.1371

F(1050,304) = 1.11, p = .2562

BMGHQ

(total score on binary scored GHQ)

(1=men 2=women)

BMGHQ	N	Mean	S.D.	Variance	T	DF	P-value
1	1051	10.5365	12.6418	Unequal	-1.7980	507.0	0.0728
2	305	11.9793	12.2482	Equal	-1.7670	1354.0	0.0775

F(1050,304) = 1.07, p = .5057

V8

(total GWB score - 2 missing allowed)

(1=men 2=women)

V8	N	Mean	S.D.	Variance	Т	DF	P-value
1	1087	62.0599	19.7005	Unequal	2.2670	499.7	0.0238
2	304	59.2410	19.0132	Equal	2.2221	1389.0	0.0264

F(1086,303) = 1.07, p = .4531

V9 (total GWB score - no missing allowed)

(1=men 2=women)

V9	l N	Mean	S.D.	Variance	Т	DF	P-value
1	992	62.2843	19.5725	Unequal	2.1638	453.6	0.0310
2	278	59.4676	19.0715	Equal	2.1324	1268.0	0.0332

F(991,277) = 1.05, p = ..6041

GWBWOR

(GWB subscale score for health worry; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBWOR	N	Mean	S.D.	Variance	Т	DF	P-value
1	1048	9.5391	3.9149	Unequal	2.4645	456.1	0.0141
2	292	8.8870	4.0220	Equal	2.5023	1338.0	0.0125

F(291,1047) = 1.06.11, p = .5509

GWBENE

(GWB subscale score for energy; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBENE	N	Mean	S.D.	Variance	T	DF	P-value
1	1089	9.5932	4.1856	Unequal	2.0807	471.4	0.0380
- 1	303	9.0132	4.3207	Equal	2.1184	1390.0	0.0343
2	202			1761			

F(302,1088) = 1.07, p = .4764

GWBSAT

(GWB subscale score for satisfying/interesting life; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBSAT	l n	Mean	S.D.	Variance	Т	DF	P-value
1	1098	4.3206	2.2745	Unequal	-1.7336	483.6	0.0836
2	305	4.57705	2.2887	Equal	1.7397	1401.0	0.0821
-	303		1				

F(304,1097) = 1.01, p = .8780

GWBCHR

(GWB subscale score for cheerful mood; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBCHR	N	Mean	S.D.	Variance	T	DF	P-value
1	1074	14.3622	5.3089	Unequal	1.1462	494.3	0.2523
2	300	13.9767	5.1058	Equal	1.1213	1372.0	0.2624

F(1073,299) = 1.08, p = .4125

GWBTEN

(GWB subscale score for relaxed vs. tense; high score reflects a self-representation of well-being-)

(1=men 2=women)

GWBTEN	N	Mean	S.D.	Variance	Т	DF	P-value
1	1078	13.9907	5.7794	Unequal	3.6323	502.0	0.0003
2	303	12.6700	5.5382	Equal	3.5464	1379.0	0.0004

F(1077,302) = 1.09, p = .3677

GWBEMO

(GWB subscale score for emotional/behavioral control; high score reflects self-representation of well-being)

(1=men 2=women)

GWBEMO	N	Mean	S.D.	Variance	Т	DF	P-value
1	1090	10.33119	3.7158	Unequal	0.6210	516.5	0.5349
2	306	10.1699	3.448164	Equal	0.5987	1394.0	0.5495

F(1089,305) = 1.14, p = .1659

UNIVARIATE ANALYSIS OF ALL ENLISTED SCORES ON THE GWB

		* *	
	obs 1944) 33) 165) 779) 1653)	* * * * * * * * * * * * * * * * * * *	+5
ne s	Highest 108(109(109(110(Probability Plot **** **** ****	+ + + + + + + + + + + + + + + + + + + +
Extremes	Obs 88) 1740) 1691) 2176) 1501)	Normal Probab *** **** ****	0
	Lowest 1(2) 2(3.176471(5.294118(NON ***	-2 -1
	103 94 89 37.05882 29 13	57.5+	1 1 1
Quantiles(Def=5)	0 0 0 1 0 0 0 1 0 0 0 0 1	Boxplot	
Quantile	110 78 64 50 50 1 1 109 28 63	* 11000 11000 11000 11000 11000 11000 11000	<u>!</u>
	100% Max 75% Q3 50% Med 25% Q1 0% Min Range Q3~Q1 Mode	**************************************	*
	2159 136588.2 389.1345 -0.24506 839752.2 0.424545 0.0001 0.0001	M	
nts	Sum Wgts Sum Variance Kurtosis CSS Std Mean Pr> T Num > 0 Pr>= M Pr>= M Pr>= S	Value 64 Nobs 2.88 **** ***** *********************	sent up to 5
Moments	2159 63.26457 19.72649 -0.2488 9480947 31.18094 149.0174 2159 1079.5	Nobs 2 2.88 Nobs 2 2.88 **** **** ***** ***** ***** *****	may represent
	Mean Std Dev Skewness USS CV T:Mean=0 Num ^= 0 M(Sign) Sgn Rank D:Normal	Missing Value Count & Count Nobs 112.5+* ***** ***** ***** ***** 57.5+*** ***** ***** ***** ***** ***** ****	1 *

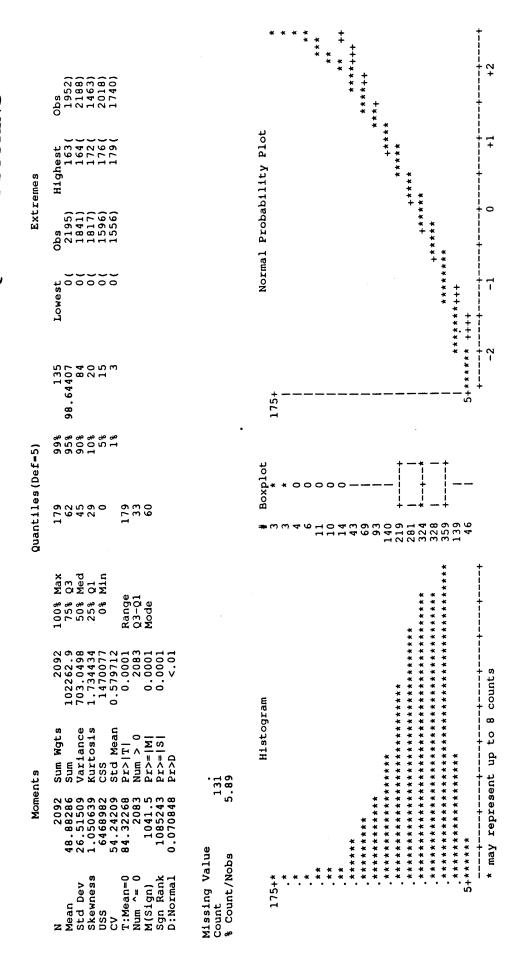
UNIVARIATE ANALYSIS OF ENLISTED MEN'S SCORES ON THE GWB

		* *	+2
	obs 1583) 33) 150) 651) 1356)	* * * * * * * * * * * * * * * * * * *	+
eine s	Highest 108(109(109(110(Probability Plot *** *** ****	++0 0 +1
Extremes	0bs 83) 1424) 1780) 1228) 1090)		+
	Lowest 1(2) 2(5) 5.294118(Normal Normal	.2 -11
	104 94.5 89 38 30 13	112.5+	!
(Def=5)	99 99 99 99 99 99 99 99 99 99 99 99 99	Boxplot	
Quantiles(Def=5)	110 78 65 51 1 109 27 56	* 1128 4 2 2 3 3 4 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
	100% Max 75% Q3 50% Med 25% Q1 0% Min Range Q3-Q1 Mode	* * * * * * * * * * * * * * * * * * *	+++
	1765 112929.6 391.9514 -0.26862 691402.3 0.471242 0.0001 0.0001	CO ************************************	-+++ counts
nts	Sum Wgts Sum Variance Kurtosis CSS Std Mean Pr> T Num > 0 Pr>= M Pr>= S	55. *** *** *** *** *** *** *** *** ***	p to 4
Moments	1765 63.98278 19.79776 -0.26202 7916952 30.94233 135.7748 1779247 779247.5	**************************************	+++ may represent u
	Mean Std Dev Skewness USS CV T:Mean=0 Num ^= 0 M(Sign) Sgn Rank	Missing Value Count / Nobs Count / Nobs 112.5+* . ***** . ***** . ***** 57.5+*** 57.5+*** . ***** 57.5+*** . ***** 57.5+*** . **** 57.5+*** . *** . ** . * .	

UNIVARIATE ANALYSIS OF ENLISTED WOMEN'S SCORES ON THE GWB

		+9	<u>†</u>
	obs 34) 362) 382) 256) 312)	** ** ** ** ** ** ** ** ** **	++
mes	Highest 102 (103 (104 (104 (Probability Plot **** **** **** **** **** ****	++ +1
Extremes	0bs 307) 38) 238) 378) 47)	The state of the s	0
	Lowest 3.176471(6(7(12(14(Normal Normal	+
	103 90 84 36 12	* * * * * * * * * * * * * * * * * * *	++
f=5)	0000 10000 1000000 1000000000000000000	102.5+ 92.5+ 92.5+ 172.5+ 172.5+ 142.5- 12.5- 12.5- 12.5- 12.5- 12.5- 12.5-	
Quantiles(Def=5)	104 73.05882 60 47.64706 3.176471 100.8235 25.41176	# Boxplot 118 255 33 40 44 44 44 44 44 44 44 44 44 44 44 44	
	100% Max 75% Q3 50% Med 25% Q1 0% Min Range Q3-Q1 Mode	4 44444 99999999999999	+-
	394 23658.61 364.7863 -0.08794 143361 0.0601 0.0001 0.0001 0.0001	44 888999999999999999999999999999999999	.1
nts	Sum Wgts Sum Variance Kurtosis CSS Std Mean Pr> T Num > 0 Pr>= M Pr>= S Pr <w< td=""><td>.23 889999 22222233333 66778888888 111222223333 66777777888888 1111122222 77777788888 33333344444</td><td>+++ af by 10**+1</td></w<>	.23 889999 22222233333 66778888888 111222223333 66777777888888 1111122222 77777788888 33333344444	+++ af by 10**+1
Moments	394 60.04723 19.09938 -0.23074 1563995 31.80726 62.40535 394 197	Nobs 2. Leaf 0023344 5557 00112334 555666667777 00001111111 5555666666 0000111111 555556666 000011111 5555556666 000011111 555555666 000011111 555555666 000011111 555555666 000011111 55555667 000011111 55555666 000011111 55555667 000011111 55555667 000011111 5555667 000011111 5555667 0000011111 5555667 000011111 5555667 000011111	Multiply Stem.Leaf by
	Mean Std Dev Skewness USS CV T:Mean=0 Num ^= 0 M(Sign) Sgn Rank W:Normal	## Sting Value 9 Count Count Nobs 2.23 Count Nobs 2.23 Stem Leaf 10 0023344 0 001123334 0 001123334 0 001123334 0 0000011111111222222233333333444 7 5556666666777778888888999999999999999999	Multi

UNIVARIATE ANALYSIS OF ALL ENLISTED SCORES ON THE GHQ - LIKERT SCORING



UNIVARIATE ANALYSIS OF ALL ENLISTED SCORES ON THE GHQ - BINARY SCORING

Extremes	Lowest Obs Highest Obs 0(2221) 57(1463) 0(2220) 57.9661(892) 0(2218) 58(1703) 0(2217) 59(2018) 0(2215) 60(1740)	Normal Probability Plot	+++
	4 W C 9 A Q O O	62.5+	2.5+**
(Def=5)	0000 11005 1008 1008 1008	Boxplot	*
Quantiles(Def=5)	60 4.067797 1.067797 0 0 14.62712	20 20 47 47 11 11 18 28	* I
	100% Max 75% Q3 50% Med 25% Q1 0% Min Range Q3-Q1 Mode		*****
	2092 20670.06 149.7955 1.690691 313222.5 0.267589 0.0001 0.0001	gram	**************************************
ıts	Sum Wgts Sum Variance Variance CSS Std Mean Pr> T Num > 0 Pr>= M Pr>= S	131 5.89 Histogram	.*************************************
Moments	2092 9.880524 12.231 1.491236 517453.5 123.8709 36.92422 791.5 626868	Value 131. Nobs 5.89 *** *** *** **** ***** ****** ****	2.5+************************************
	N Mean Std Dev Skewness USS CV T:Mean=0 Num ^= 0 M(Sign) Sgn Rank D:Normal	Missing Value Count & Count/Nobs 62.5+* . ** 32.5+*** 32.5+*** . *** . **** . **** . **** . **** . **** . **** . ****	2.5+**

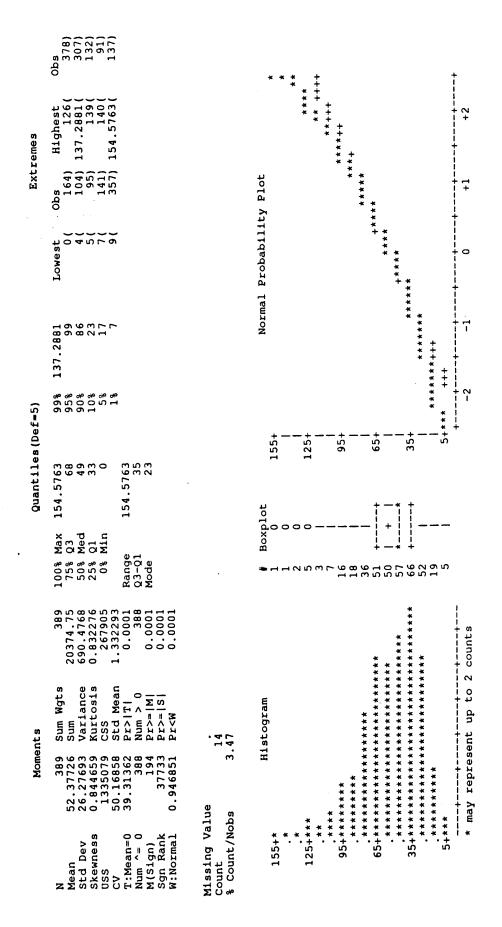
UNIVARIATE ANALYSIS OF ENLISTED MEN'S SCORES ON THE GHQ - LIKERT SCORING

			* * * * + + + + + + + + + + + + + + + +
	Obs 1590) 1792) 1190) 1645)		* * * * * * * * * * * * * * * * * * * *
Extremes	Highest 163(164(172(176(179(Probability Plot **** +**** +****
Extr	obs 1799) 1500) 1484) 1304) 1274)		1 Probabl
	Lowest 0(0)		**************************************
	134 984 150 3		175+
t=5)	9 9 9 1 9 0 0 0 1 9 4 4 4 4 4 4		
Quantiles(Def=5	179 61 44 28 28 179 33 60		# Boxplot 3
	100% Max 75% Q3 50% Med 25% Q1 0% Min Range Q3-Q1 Mode		*
	1703 8188.19 702.9008 1.990586 1196337 0.642451 0.0001 0.0001		Histogram *** *** **** ***** ****** ******
inta	Sum Wgts Sum Variance Kurtosis CSS Std Mean Pr> T Num > 0 Pr>= M Pr>= M Pr>= S	11. 6.43	Histogram ******* ******** ******** ********
Moment8	1703 48.08467 26.51228 1.106011 5133903 55.13665 74.84571 1695 1695 718680		# * * * * * * * * * * * * * * * * * * *
	N Mean Std Dev Skewness USS CV T:Mean=0 Num ^= 0 M(Sign) Sgn Rank W:Normal	Missing Value Count % Count/Nobs	H * * * * * * * * * * * * * * * * * * *

UNIVARIATE ANALYSIS OF ENLISTED MEN'S SCORES ON THE GHQ - BINARY SCORING

			8	,	
		* * * * * * * * * * * * * * * * * * *	+ + + + + + + + + + + + + + + + + + +	† - - - - -	+ 7
0bs 751) 1190) 1393) 1645) 1424)	lot		* + * * + * * * * *	† - - -	+1
Highest 57(57(58(59(60(obability P			* * * * * * * * * * * * * * * * * * *	0
Obs 1820) 1818) 1816) 1815)	ormal Pr			***	-1-
Lowest 0(2			***************************************	++
49 36 28.47458 0 0		62.5+	32.5+	2.5+**	i +
9 9 9 9 1 9 9 9 9 1 9 9 9 9 9 9 9 9 9 9	Roxplot	.0000	0	+*	
60 15 0 0 0 15	•		24 2 2 4 5 3 2 5 3 3	44.40	!
100% Max 75% Q3 50% Med 25% Q1 0% Min Range Q3-Q1 Mode					++-
1703 16093.91 147.8981 1.988987 251722.5 0.294696 0.0001 0.0001 0.0001	1			***************************************	+
Sum Wgts Sum Variance Kurtosis CSS Std Mean Pr> T Num > 0 Pr>= K Pr>= S Pr>= S) 		***	may represent up to
1703 9.450329 12.16134 1.579684 403815.3 128.6869 32.06808 631.5 631.5			* * *	* * * * * * * * * * * * * * * * * * *	may represent up
N Mean Std Dev Skewness USS CV T:Mean=0 Num ^= 0 M(Sign) Sgn Rank	Missing Val Count % Count/Nob	62.5+*	32.5+**.		1 *
	1703 Sum Wgts 1703 100% Max 60 99% 49 Lowest Obs Highest O (1820) 57(1820)	1703 Sum Wgts 1703 Highest 0	1703 Sum Wgts 1703 100% Max 60 99% 49 Lowest Obs 67 751 603.91 758 03 158 0	1703 Sum Wgts 1703 100% Max 60 99% 49 Lowest Obs Highest O	1703 Sum Wgts 1703 100% Max 60 99% 49 10 Lowest 005 1490s 45523 Sum Wgts 175% Q3 15%

UNIVARIATE ANALYSIS OF ENLISTED WOMEN'S SCORES ON THE GHQ - LIKERT SCORING



UNIVARIATE ANALYSIS OF ENLISTED WOMEN'S SCORES ON THE GHQ - BINARY SCORING

Extremes	Highest Obs 48 (91) 48 (146) 49 (238) 50 (38) 57.9661 (137)		***** ***** *** *** *** ***
EX	Lowest Obs 0 401) 0 400) 0 394) 0 391) 0 388)		*++**
5)	9998 9958 3008 1038 1038 1 8		S7.5+
Quantiles(Def=5)	57.9661 19 7.118644 0 57.9661		# Boxplot 5 1 0 0 9 0 0 6 1 7 1 10 0 22 1 42 1 + 1 42 1 + 1 58 *+ 56 ++
	389 100% Max 76.146 75% Q3 4.1366 50% Med 789658 25% Q1 0% Min 629474 0.0001 Range 320 0.0001 Mode 0.0001 0.0001	·	* ! * ! * ! * ! * ! * ! * ! * ! * ! ! ! * ! ! ! * ! ! ! * ! ! ! * ! ! ! * ! ! ! ! * ! ! ! * ! ! ! * ! ! ! ! * ! ! ! ! * ! ! ! ! * !
ts	Sum Wgts 389 Sum Variance 154.1366 Variance 0.789658 CSS 0.629474 Pr> T 0.0001 Num > 0 320 Pr> T 0.0001 Pr>	• 4-1-	Histogram *** *** *** *** **** ******* ****
Moments	389 11.76387 12.41518 1.17184 113638.2 105.5365 18.6884 320 25680 0.842556	Value 14 Nobs 3.47	Histogram *** *** *** *** ****** ********
	N Mean Std Dev Skewness USS CV T:Mean=0 Num ^= 0 M(Sign) Sgn Rank	Missing Value Count % Count/Nobs	5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5

	EPILOGUE .
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ESPITE THE LARGE BODY OF LITERATURE ON RESPONSES TO STRESS AND TRAUMA there are substantial gaps in our current understanding of the stress effects in military women and how best to design and implement intervention programs to increase readiness and performance in military women in combat, deployment, contingency operations and traumatic events. More specifically, identifying the unique health problems in military women can enhance the services provided to military women. Practitioners can better anticipate health related problems ..

Although our studies have limitations, they illustrate the wealth of knowledge available about women across services. as discussed, they are most valuable, perhaps, in providing direction for future empirical investigation of the stress and health effects in military women. For example, the study of self-reported health problems and its relation to actual health status can provide valuable insights into the high symptom reporting often attributed to women.

It is not difficult to find behaviors among which selected groups of women and men show some average difference. Such differences make media headlines at times because they justify the status quo and help maintain the barrierss to gender equality. Yet despite all the multiple conditions in our society that push girls and boys and then women and men into different spheres, there simply is no getting around the fact that the differences so painstakingly identified are often small indeed.

Epilogue

It is most important in gender studies to stay alert to 1) What is the meaninguful outcome variable (clinical concern); 2) What is necessary and sufficient to claim a difference and 3) What are the effects of our research findings? How may they influence or perpeutate the status quo? (Tavris, 1993).

BIOPSYCHOSOCIAL RESEARCH ON GENDER: FOCUS FOR THE FUTURE

In future research a number of overarching perspectives should be maintained in order to further understand gender and high stress environment effects.

- 1. How are gender groups effected differently in high stress environments of combat and contingency operations?
- 2. How do women and men change over the life span what is similar and what is different at various times in the life cycle?
- 3. Define the important gender-related differences which require intense study and decide on how to understand the relative magnitude of the differences between women and men. What is the meaningful outcome variable that is of clinical concern and what is necessary and sufficient to determine differences?
- 4. What are the important units of measurement of gender-related differences (see Eagly, 1995) for a review of the methodological issues related to research on gender-related differences. Sex differences are particularly well suited to being summarized by using a meta-analytic technique that synthesizes the research in the field. What is the relative magnitude of gender-related differences and why compare men and women rather than other social groups.
- 5. What, if any, function does maintaining the belief in gender differences serve for women in today's military?
- 6. What are the effects of our research findings and how does this influence or perpetutate the status quo of women in the military.

HE SYSTEMATIC STUDY of the effects of stress and trauma on women's health is timely for women in all branches of service. There is a close interplay between performance, health and psychosocial factors in responding to traumatic events. Little is presently known about how the women may be uniquely affected by traumatic events. Learning more about the gender-related responses in military women to traumatic events is important for the development of command policy, training, and medical care.